FB DIGITAL FORCE GAUGE

FEATURES:

- High accuracy & High resolution: Accuracy : ±0.5% Min resolution :0.001N;
- Peak holding and auto-releasing function: Catching and holding the peak value in test, the peak holding time can be set(1-10 seconds);
- Comparing function: Initial input of the tolerance limit(Max/Min) enables the device to judge the measured result as Go(Green pilot lamp)/NG(Red pilot lamp);
- Memory function: Memory 10 testing data, and calculate the average;
- Units conversion: Converting three units(N, kgf, ibf) automatically;
- LCD screen direction turning function: Pressing the unit key for 3 seconds, the LCD screen will change its direction;
- Automatic power off function: Power off time (1-60minutes) can be set by yourself;
- RS-232C output: Transmitting the data to Printer or computer, saving it into "Excel" for analysis or printing; Standard: **JIS B 7721 and 7733**



Sensor inside

Model No.	FB-2N	FB-5N	FB-10N	FB-20N	FB-50N	FB-100N	FB-200N	FB-500N
Capacity :	2N	5N	10N	20N	50N	100N	200N	500N
Graduation :	0.001N	0.001N	0.005N	0.01N	0.01N	0.05N	0.1N	0.1N
Accuracy :	±0.5%							

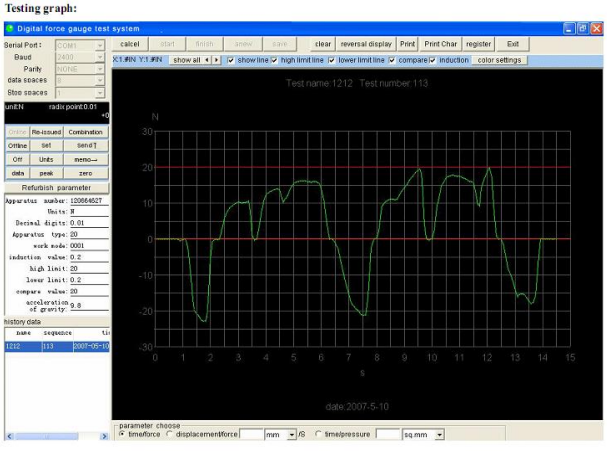
Sensor outside

Model No.	FB-1KN	FB-2KN	FB-5KN	FB-10KN	FB-20KN	FB-50KN	FB-100KN	FB-200KN	FB-500KN	FB-1000KN
Capacity :	1KN	2KN	5KN	10KN	20KN	50KN	100KN	200KN	500KN	1000KN
	0.5N	1N	1N	0.005KN	0.01KN	0.01KN	0.05KN	0.1KN	0.1KN	0.5KN
Accuracy	±0.5%							±1%		

FB DIGITAL FORCE GAUGE ANALYSIS SOFTWARE

- Our software can output testing data to standard application software programs like WORD, EXCEL, ACCESS, POWERPOINT and OUTLOOK. It was special designed for FB digital force gauge, the result is not only with testing data (max. memory is 896 testing data), but also with analysis graph. Tabular results are displayed in a spreadsheet style, so you can evaluate your testing data, perform pass- fail analysis, calculate statistical relationship and maintain history on your testing procedures. With this Windows software makes automated testing and data analysis simple and efficient, so it widely used on the industry, laboratory, university, office and so on.

Testing graph:



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FB DIGITAL FORCE GAUGE



FEATURES:

- Force measuring device for exact measuring with an accuracy of 0.2 %
- Overload protection: 150 % full scale (up to 5 N)
  200 % full scale (from 20 N)
- For hand-held use or mounting on test stand (mounting thread 4 x M4 in back)
- Easy to operate
- Force gauge with easy to read LCD display
- Ergonomically-designed, rugged die-cast aluminium housing
- Operates on rechargeable battery (NiMH) and/or AC adapter
- Full set of accessories included
- **Standard:JIS B 7721 and 7733**

SPECIAL FEATURES:

- 2 operation modes: real time - display the actual tension or compression force peak force - to measure the peak force during a test
- Force measuring device with high sampling rate of 1000 times/sec to measure the peak force during a test switchable to 30 times/sec for applications with slow-changing forces or for damping forces, beeing influenced by vibrations.
- Display update time 10 mal/sec
- Force gauge with user switchable units: N, gf (kgf) und ozf (lbf)
- Programmable high/low set-points for go/no-go testing: Display: underrun (-) - good (O) - exceeding (+)



TECHNICAL SPECIFICATON

Loadcell inside

Model No.	Range	Display	Resolution
FS-2N	2N(200gf)	2.000N(200.0gf)	0.001N(0.1gf)
FS-5N	5N(500gf)	5.000N((500.0gf)	0.001N(0.1gf)
FS-10N	10N(1kgf)	10.00N(1.000kgf)	0.01N(0.001gf)
FS-20N	20N(2kgf)	20.00N(2.000kgf)	0.01N(0.001gf)
FS-50N	50N(5kgf)	50.00N(5.000kgf)	0.01N(0.001gf)
FS-100N	100N(10kgf)	100.0N(10.00kgf)	0.01N(0.001gf)
FS-200N	200N(20kgf)	200.0N(20.00kgf)	0.1N(0.01gf)
FS-500N	500N(50kgf)	500.0N(50.00kgf)	0.1N(0.01gf)
FS-1000N	1000N(100kgf)	1000N(100.0kgf)	1N(0.1kgf

Loadcell outside

Model No.	Range	Display	Resolution
FS-1KN	1000N(100kgf)	1000N(100.0kgf)	1N(0.1kgf)
FS-2KN	2000N(200kgf)	2000N(200.0kgf)	1N(0.1kgf)
FS-5KN	5000N(500kgf)	5000N(500.0kgf)	1N(0.1kgf)
FS-10KN	10000N(1000kgf)	10000N(1000.0kgf)	0.1N(1kgf)
FS-20KN	20000N(2000kgf)	20000N(2000.0kgf)	0.1N(1kgf)
FS-30KN	30000N(3000kgf)	30000N(3000.0kgf)	0.1N(1kgf)
FS-50KN	50000N(5000kgf)	50000N(5000.0kgf)	0.1N(1kgf)
FS-100KN	100000N(10000kgf)	100000N(10000.0kgf)	0.1N(1kgf)
FS-200KN	200000N(20000kgf)	200000N(20000.0kgf)	0.1N(1kgf)

ANALOG FORCE GAUGE

FEATURES:

- High resolution,the device provides 1/200 resolution and graduations scale is clear. Single click can make a measurement conversion form peak force to tracking force. Easy operation, hand-holding design and being installed with various test stands and clamps ;
- Scales of newton and kgf.
- Tolerance limit indication,can set upper and lower limits
- High accuracy,0.5% of full scale.
- **Standard:JIS B 7721 and 7733**



Model No.	Capacity		Graduation		Stroke
NK-10N	10N	1Kgf	0.05N	10gf	10mm
NK-20N	20N	2Kgf	0.1N	20gf	10mm
NK-30N	30N	3Kgf	0.2N	20gf	10mm
NK-50N	50N	5Kgf	0.25N	50gf	10mm
NK-100N	100N	10Kgf	0.5N	100gf	10mm
NK-200N	200N	20Kgf	1N	200gf	10mm
NK-300N	300N	30Kgf	2N	200gf	10mm
NK-500N	500N	50Kgf	2.5N	500gf	10mm

NL analog force gauge provide Newton(N)and pound(lb)units

Model No.	Capacity	Graduation
NL-02	2Lb	0.01lb
NL-03	3Lb	0.02lb
NL-05	5Lb	0.02lb
NL-10	10Lb	0.05lb
NL-20	20Lb	0.1lb
NL-30	30Lb	0.2lb
NL-50	50Lb	0.2lb
NL-100	100Lb	0.5lb
NL-200	200Lb	1lb
NL-300	300Lb	2lb
NL-500	500Lb	2lb
NL-1000	1000Lb	5lb

ANALOG FORCE GAUGE

FEATURES:

- HIGH RESOLUTION
  The device provides 1/200 resolution and graduations scale is clear.
- *HIGH ACCURACY
- *EASY OPERATION
  Single click can make a eameasurement conversion from peak force to tracking force.
- *VARIATIONS
  The measurement capacity 4 types (1000N/100kgf-5000N/500kgf)
- **Standard:JIS B 7721 and 7733**



Model No.	NK-1K	NK-2K	NK-3K	NK-5K
Capacity	1000N	2000N	3000N	5000N
Graduation	5N	10N	20N	25N
Accuracy	±0.1%			

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STANDARD ACCESSORIES FOR FORCE GAGES

	**Small Hook** Aluminium, M6, measuring range up to 50 N Model no: SA-A1 Steel, M6, measuring range from 100 N to 500 N Model no: SA-S1
	**Flat Tip** Aluminium, M6, Ø 13 mm, measuring range up to 50 N Model no: SA-A2 Steel, M6, Ø 16 mm, measuring range from 100 N to 500 N Model no: SA-S2
	**Conical Tip** Aluminium, M6, 85° , measuring range up to 50 N Model no: SA-A3 Steel, M6, 85° , measuring range from 100 to 500 N Model no: SA-S3
	**Chisel Tip** Aluminium, M6, 85° , measuring range up to 50 N Model no:SA-A4 Steel, M6, 85° , measuring range from 100 N to 500 N Model no: SA-S4
	**Notched Tip** Aluminium, M6, 90° , measuring range up to 50 N Model no: SA-A5 Steel, M6, 90° , measuring range from 100 N to 500 N Model no: SA-S5
	**Extension Shaft** Aluminium, M6, 80 mm, measuring range up to 50 N Model no: SA-A6 Steel, M6, 100 mm, measuring range from 100 N to 500 N Model no: SA-S6

MANUAL TEST STAND FT-110/112

FEATURES

- FT-110 test stand features a gear drive manual operation for easy of use and rapid load applications.
- Capacity: 500N
- Dimension:240x150x400 mm (L x W x H)
- Stroke:70mm
- **FT-110 no digital scale 150**
- **FT-112 with digital scale 0-200mm**



FT-110



FT-112

MANUAL WHEEL TEST STAND FT-130

FEATURES

- FT-130 manual wheel test stand are popular in every trade and scientific Research organization for testing applications tension/compression tests, insertion/withdraw tests and fracture tests.
- Capacity: 500N/1000N
- T-screw transfer displacement for manual operation in vertical or horizontal use.
- **FT-130 no digital scale,FT-131 with digital scale,FT-132 is 1000N with digital scale 0-200mm**
- Dimensions: 160x240x460 mm /160x240x550

TECHNICAL SPECIFICATIONS

Model No.	Max capacity	Stroke
FT-130	500N	150mm
FT-131	500N	150mm
FT-132	1000N	250mm



MANUAL HAND WHEEL TEST STAND FT-140

FEATURES

- FT-140 test stand has a variety of applications, such as switch tests, insertion/withdrawing tests, and fracture tests. The motive carrier is designed with the test stand and can be moved on X-Y axis. The design is convenient to fix grips.

TECHNICAL SPECIFICATIONS

Capacity	50Kgf
Stroke	180mm
Travel rate	2mm / wheel turn
Test table size	130×110mm
Stand dimension	260×360×470mm
Weight	22Kg



HORIZONTAL MANUAL TEST STAND FT-170

FEATURES

- FT-170 test stand features a gear drive manual operation for easy of use and rapid load applications and offers the advantage of horizontal operation. **Force gauge optional.**
- Capacity: 500N
- Dimension:450x150x160 mm (L x W x H)
- Stroke:50mm



HORIZONTAL MOTORIZED TEST STAND FT-220

FEATURES:

- FT-220 Electric Horizontal Test Stand is a tensile/compressive test stand,with double pillar, it has good stability, wide application range, convenient usage,nonpolar timing, manual and automatic control switch function. It is specialized for tension/compression, insertion/ withdraw and fracture test. **Force gauge optional.**
- Capacity 500N
- Stroke 250 mm
- Testing speed: 50-500mm/min



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ELECTRIC VERTICAL TEST STAND

FEATURES:

■ Electric Test Stand, equipped with push pull force gauge, can be fitted to perform a variety of force tests, such as tension/compression test, insertion/withdraw test, fatigue test and destructive test.In addition, It has stepless speed uniform motion, manual & automatic control switch functions and can preset the cycle test times.



Model No.	FT-350

● Dimension: LX W XH (mm) 430X245 X 570mm; Stroke: 250mm; Weight: about 24.2kg.
● Testing Speed: 50-245mm/min, max load: 200N; 250-500mm/min, max load: 500N.
● Can be configured (purchase additionally): (Sensor Inside) force gauge, various clamps.

Model No.	FT-360

● Dimension: LX W XH (mm) 410X270X970mm; Stroke: 520mm; Weight: about 31.5kg.
● Testing Speed: 50-245mm/min, max load: 500N; 250-500mm/min, max load: 1000N.
● Can be configured (purchase additionally): (2N-1kN) force gauge, various clamps.

Model No.	FT-370

● Dimension: LX W XH (mm) 465 X310X 1180mm; Stroke: 600mm; Weight: about 52.1kg.
● Testing Speed: 50-500mm/min, max load: 2000N.
● Can be configured (purchase additionally): (2N-2kN) force gauge, various clamps.

Model No.	FT-380

● Dimension: LX W XH (mm) 380X285 X 1490mm; Stroke: 1000mm; Weight: about 57.0kg.
● Testing Speed: 50-500mm/min, max load: 1000N.
● Can be configured (purchase additionally): (2N-2kN) force gauge, various clamps.

MOTORIZED TEST STAND FT-300/FT-301

FEATURES:

■ Test stand is motorized vertical test stands which are used in tension andcompression tests. The stand features a dual column design which affords high stability and reliable force application and measurement. The stand features variable speed control, and jog buttons to position the crosshead for test initiation.



Model No.	FT-300

● Dimension: L×W×H(mm) 410×260×1030.
● Testing speed: 30-240(mm/min)
● Stroke: 200mm
● Weight: about 54.8kg
● Capacity:5000N.
● Can be configured (purchase additionally): (2N-5kN) force gauge, various clamps.

Model No.	FT-301

● Dimension: L×W×H(mm) 410×260×1330.
● Testing speed: Bracket(24, 48, 72, 96, 120)mm/min;
● Stroke: 200mm;
● Weight: About 58. lkg;
● Capacity: 10000N.
● Can be configured (purchase additionally): (2N-10kN) force gauge, various clamps.

MOTORIZED TEST STAND FT-400



FEATURES:

■ Electric Test Stand, equipped with push pul force gauge, can be fitted to perform a variety of force tests,such as tension/compression tet, insertion/ withdraw test, fatigue test and destructive test.In addition, lt has stepless speeduniform motion, manual & automatic control switch functions and can preset the cycle test fimes.

Model No.	FT-400

- Capacity:5000N
- Dimension: L X W X H(mm) 410 X 260 X 1030
- Stroke: 200mm
- Weight: about 54.8kg
- Teting speed: 30-240mm/min.
- Can be configured (purchase additionally): 2N-5KN push pull force gauge, various clamps.

Model No.	FT-410

- Capacity: 10000N
- Dimension: L X W X H(mm) 410 X 260 X 1330
- Stroke: 200mm
- Weight: about 59.5kg
- Testing Speed: 20-120mm/min
- Can be confiaured (purchase additionally): 2N-10kN push pull force gauge, various clamps

Model No.	FT-420

- Capacity: 20000N
- Dimension: L X W XH(mm) 410 X 260 X 1080
- Stroke: 200mm
- Weight about 63.5kg
- Testing Speed: 20-120mm/min
- Can be configured (purchase additionally): 1kN-20KN push pull force gauge, various clamps.

Model No.	FT-430

- Capacity: 30000N
- Dimension: L X W X H(mm) 410 X 260 X 1080
- Stroke: 200mm
- Weight: about 63.5kg
- Testing Speed: 8-75mm/min.
- Can be configured (purchase additionally): SH/SP(1kN-30KN) push pull force gauge, various clamps

CLAMPS FOR TEST STANDS

For tension tests ≤ 500 N



Long clamp GP-1
for tension and rupture tests up to 500 N, clamping width: 3 mm, thread: M6



Angle bracket GP-2
for tension and rupture tests up to 500 N (e.g. for cable tests), clamping width: 22 mm, thread: M6



Rope and thread clamp GP-3
for tension and rupture tests up to 500 N thread: M6



Fine point clamp GP-4
for tension and rupture tests up to 500 N, width 15 mm, clamping width: 4 mm, thread: M6



Fine point clamp GP-5
for tension and rupture tests up to 500 N, width 22 mm, clamping width: 4 mm, thread: M6

For tension tests ≤ 5000 N



Flat jaw attachment GP-6
for tension tests up to 5 kN
(e.g. textile, paper etc.),
clamping width: 4 mm, thread: M6



Parallel jaw grip GP-7
for tension and rupture tests up to 5 kN,
clamping width: 5 mm, thread: M10



High capacity small clamp GP-8
for tension and rupture tests up to 5 kN,
clamping width: 5 mm, thread: M10



2 wide jaw grip attachment GP-9
for tension and extraction tests up to
5 kN, jaw width 60 mm, clamping width:
33 mm, thread: M10



Rolling-clamp attachment GP-10
for tension and rupture tests up to 5 kN,
thread: M10



1-jaw-clamp attachment GP-11
for tension and rupture tests up to 5 kN,
clamping width: 3 mm, thread: M6



Eccentric roll clamp GP-12
in particular for cable tests up to 5 kN,
10×30 mm slotted hole, clamping width:
9 mm



Drum clamp GP-13
typically for cable connector extraction
tests up to 5 kN, for test objects with
⌀ from 1,5 mm up to 8 mm, thread: M10



Wedge tension clamp GP-14
up to 5 kN, for tensile force tests, due
to the wedge shape of the clamp the
specimen is clamped automatically with
increasing load, clamping width up to
10 mm, jaws with pyramid grip



Rope and thread tension clamp GP-15
up to 1 kN, Suitable for wires up to a
diameter of 2 mm, belts up to 7 mm width,
incl. jaws with rubberised surface

For tension tests ≤ 500 N



Standard small clamp GP-16
Opening width (inside the jaws):
0-7 mm, for tensile tests up to 500 N, thread
M6. Overload protection: 150 %of [Max].
Easy handling without tools, the opening and
closing of the jaws can be made with the rotary
knob on the upper side. Presetting of the jaw
opening via attached screws. Pretension due to
built-in springs



Wide jaw clamp GP-17
Opening width (inside the jaws):
0–6 mm, for tensile tests up to 500 N, thread
M6. Overload protection: 150 % of [Max].
Easy handling without tools, the opening and
closing of the jaws can be made with the rotary
knobs on the upper side



Belt tension clamps GP-18
Opening width (inside the jaws):
0–4 mm, for tensile tests up to 500 N, thread
M6. Overload protection: 150 % of [Max].
Easy handling without tools, the opening and
closing of the jaws can be made with the lever
on the upper side



Belt tension clamps GP-19
Opening width (inside the jaws):
0–6 mm, for tensile tests up to 500 N, thread
M6. Overload protection: 150 % of [Max].
Easy handling without tools, the opening and
closing of the jaws can be made with the lever
on the upper side

For compression tests > 500 N



Pressure disc GP-20
out of aluminium, thickness 10 mm,
for compression tests up to 5 kN,
diam. 110 mm, outer thread: M12



Pressure disc GP-21
for compression tests up to 5 kN
(e. g. plastics), ⌀ 49 mm,
inner thread: M10



Ball-shaped head GP-22
made of nickel- plated steel
for compression and fracture tests up to 5 kN,
(e.g. foam, glass), thread: M6/M10
Ball radius: 5mm/8mm



Small 3-point bending device (steel) GP-23
up to 10 kN, central scale 80-0-80 mm. Consisting
of one support beam, two support brackets and a
curved fin each with permanently fixed radii, radii
on request.
Gap between the two support brackets 4–170 mm.
Width of the brackets 30 mm

DIGITAL TORQUE METER

FEATURES:

- Automatic shutdown (after 10 minutes to place self-closing (OFF))
- Data storage function (which can record 100 torque &#118alue, with storage, browsing, some of the deleted, delete all the features.)
- Calculate the maximum (MAX), minimum (MIN), average (AVE).
- Auto-delete function of the &#118alue of torque (with automatic reset switch adjustable time required)
- Auto-zero (that can automatically return to zero)
- Can be set torque &#118alue. Buzzer and can be prompted operators



TECHNICAL SPECIFICATION

Model No.	TP-1N	TP-5N	TP-10N	TP-20N
Test range	0.015-1.000N.m 0.15-9.00Lbf.in 0.15-10.00Kgf.cm	0.15-5.00N.m 1.5-44.0Lbf.in 1.5-50.0Kgf.cm	0.15-10.00N.m 1.5-90.0Lbf.in 1.5-100.0Kgf.cm	0.50-20.00N.m 5.0-180.0 Lbf.in 5.0-200.0Kgf.cm
Accuracy	±0.5%(F.S.)			
Size (mm)	200*124*65.2(H)			
Weight	2kg			
Full timeuse of electricity in a row	8 Hours			
Battery life	300 times			
Special charger	Input Voltage : AC100V-240V 50/60Hz Output Voltage : DC7.3V - 8V 0.5A			

DIGITAL TORQUE METER

FEATURES:

- Peak sampling rate of up to 5000Hz.
- The first peak "F.PEAK" detection function: measuring and lock the first peak torque testing process.
- "START" Measurement: Clear PEAK value, jumped into a new storage format and clear its original measurement, start a new measurement.
- Set upper and lower limits of detection values,detected values, and automatic alarm.
- Charge for the use of time: 50 hours , Charging time: <8 hours
- 10 sets of measurement data can be stored.
- Three kinds of torque units Kgf.cm / Lbf.in / N.m automatically converted.
- Automatic calculation of the average value of the stored data.
- Three minutes without operating automatic shutdown of the power design.
- Ni-MH battery power display.7.2V Ni-MH battery
- Automatic control of the charge , Input AC 220V/50Hz, 0utput DC 12V/300mA
- RS-232 interface with the computer, automatic and manual transmission (optional).
- Net Weight: 2.5kg, Gross Weight: 5kg
- Size: 230mm × 123mm × 65mm



TECHNICAL SPECIFICATION

Model No.	Measuring range	Accuracy	Frequency	Graduation	Interface
TP-10K	0.15-10.00kgf.cm 0.015-1.000N.m 0.15-9.00Lbf.in	±0.5% FS	5000Hz	0.01kgf.cm 0.001N.m 0.01Lbf.in	RS-232
TP-20K	0.3-20.00kgf.cm 0.03-2.000N.m 0.3-18.00Lbf.in	±0.5% FS	5000Hz	0.01kgf.cm 0.001N.m 0.01Lbf.in	RS-232
TP-50K	0.5-50.00kgf.cm 0.05-5.000N.m 0.5-45.00Lbf.in	±0.5% FS	5000Hz	0.02kgf.cm 0.002N.m 0.02Lbf.in	RS-232
TP-100K	1.5-100.0kgf.cm 0.15-10.00N.m 1.5-90.0Lbf.in	±0.5% FS	5000Hz	0.1kgf.cm 0.01N.m 0.1Lbf.in	RS-232
TP-200K	3.0-200.0kgf.cm 0.3-20.00N.m 3.0-180.0Lbf.in	±0.5% FS	5000Hz	0.1kgf.cm 0.01N.m 0.1Lbf.in	RS-232

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DIGITAL CAP TORQUE METER

FEATURES:

- Automatic boot (available 10 minutes after the automatic switch (OFF)
- Data storage function (which can record 100 torque &#118alue, with storage, browsing, some of the deleted, delete all the features.
- Calculate the maximum (MAX), minimum (MIN), average (AVE).
- Auto-delete function of the &#118alue of torque (with automatic reset switch adjustable time required)
- Auto-zero (that can automatically return to zero)
- Can be set torque &#118alue, and can be used Feng-Ming prompted operators.



TECHNICAL SPECIFICATION

Model No.	CTM-1N	CTM-5N	CTM-10N	CTM-20N
Test range	0.15-1.000N.m 0.15-9.00Lbf.in 0.15-10.00Kgf.cm	0.15-5.00N.m 1.5-45.0Lbf.in 1.5-50.0Kgf.cm	0.15-10.00N.m 1.5-90.0Lbf.in 1.5-100.0Kgf.cm	0.50-20.00N.m 5.0-180.0Lbf.in 5.0-200.0Kgf.cm
Accuracy		±0.5%(F.S.)		
Size (mm)	325*200*65(H)			
Clamp diameter	Up to 200mm			
Weight	12kg			
Measuring Object Diameter	15-150mm			
Three-jaw fixture	1-16mm			
Special charger	Input Voltage : AC100V-240V 50/60Hz Output Voltage : DC7.3V - 8V 0.5A			

DIGITAL CAP TORQUE METER

FEATURES:

- High precision, accuracy at ± 0.5% +1 digit within, Kgf.cm / N.m / lbf.in conversion measurement, three minutes without operation of automatic shutdown of the power design, maintain peak function, automatic alarm settings, torque direction showed that automatic charging, Ni-MH battery power display, storing and printing 10 test data, automatically calculating the average of storing data that can print at the scene measurement curve.
- Battery: 7.2V Ni-MH battery,Charge for the use of time: 50 hours Charging time: <8 hours Input AC 220V/50Hz, 0utput DC 12V/300Ma
- Dimension: 230mm × 123mm × 65mm
- Net Weight: 3.4kg, Gross Weight: 5.8kg



TECHNICAL SPECIFICATION

Model No	Measuring range	Accuracy	Responsive Frequency	Measuring diameter
CTM-10P	0.15-10.00Kgf.cm 0.015-1.000N.m 0.15-9.00lbf.in	±0.5%+1 digit	600Hz	Φ18-150mm
CTM-20P	0.3-20.00kgf.cm 0.3-2.000N.m 0.3-18.00Lbf.in	±0.5%+1 digit	600Hz	Φ18-150mm
CTM-50P	0.5-50.0Kgf.cm 0.05-5.00N.m 0.5-45.0lbf.in	±0.5%+1 digit	600Hz	Φ18-150mm
CTM-100P	1.5-100.0Kgf.cm 0.15-10.00N.m 1.5-90.0lbf.in	±0.5%+1 digit	600Hz	Φ18-150mm

DIGITAL TORQUE TESTER

FEATURES :

- Wide range (0.5% ~100% capacity)& hight accuracy(±0.3% readings) Reversible display
- Units: N·m, N·cm, kgf·cm, lbf·ft, lbf·in
- Display Mode: Digital/Diagram
- Measuring Mode: Track, Peak, First Peak,Preset
- Connect to PC easily
- Printing: Mini Printer(data printing /diagram printing)



Models

Capacity/Resolusion

Model No	N.m	N.cm	kgf.cm	lbf.ft	lbf.in	Interface
DTB2	0.1~2/0.0002	10~200/0.02	1~20/0.002	0.07~1.48/0.0002	0.89~17.7/0.002	☐12.5(1/2") ☐ 6.3(1/4") Square Drive Adapter
DTB5	0.25~5/0.005	25~500/0.05	2.5~50/0.005	0.18~3.7/0.0005	2.2~44.3/0.005	
DTB10	0.5~10/0.001	50~1000/0.1	5~100/0.01	0.37~7.4/0.001	4.4~88.5/0.01	
DTB20	1~20/0.002	100~2000/0.2	10~200/0.02	0.7~14.8/0.002	8.9~177/0.02	☐12.5(1/2") ☐ 10(3/8") Square Drive Adapter
DTB50	2.5~50/0.005	250~5000/0.5	25~500/0.05	1.8~36.8/0.005	22~443/0.05	
DTB100	5~100/0.01	500~10000/1	50~1000/0.1	3.7~74/0.01	44~885/0.1	



Digital Display

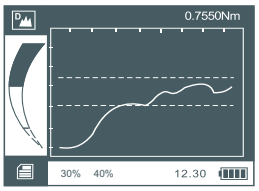
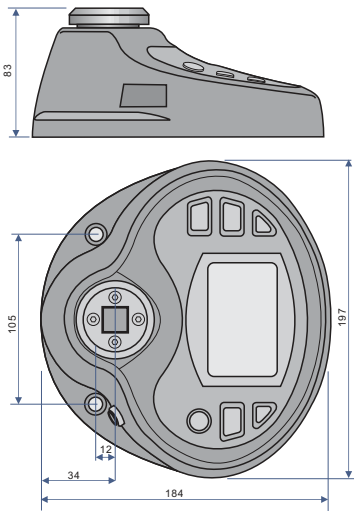


Diagram Display

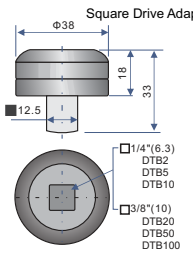
Specifications

Measuring Range	5%~100% capacity
Accuracy	± 0.3% reading
Units	N·m, N·cm, kgf·cm, lbf·ft, lbf·in
Display	240*160 matrix LCD with Backlight
Overload	120% F.S.
Display Mode	Digital/Diagram
Measuring Mode	Track, Peak, AutoPeaak,FirstPeak,Preset
Sampling Rate	2000 Hz
Memory	1000 data
Output	USB, Set point output, RS232C
Power	3.6VDC Ni-MH rechargeable batteries Universal USB charger, Input:100~240VAC
Dimension	197X183X83 mm
Weight	~ 1.6 kg

Dimension



Square Drive Adapter





Optional

Rundown Adapter	Mini Printer	RS232 Cable	Torque Test Stand	
				



Package





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DIGITAL CAP TORQUE TESTER

FEATURES :

- Accuracy: ±0.3% of readings
- Reversible display
- Units: N·m, N·cm, kgf·cm, lbf·ft, lbf·in
- Display Mode: Digital/Diagram
- Measuring Mode:
  Track, Peak, First Peak, Auto Peak, Double Peak,Preset,Auto First Peak
- Connect to PC easily
- Printing: Wireless Printer



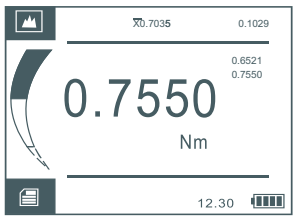
Models

Capacity/Resolusion

Model	N.m	N.cm	kgf.cm	lbf.ft	lbf.in
DCT2	0.1~2/0.0002	10~200/0.02	1~20/0.002	0.07~1.48/0.0002	0.89~17.7/0.002
DCT5	0.25~5/0.0005	25~500/0.05	2.5~50/0.005	0.18~3.7/0.0005	2.2~44.3/0.005
DCT10	0.5~10/0.001	50~1000/0.1	5~100/0.01	0.37~7.4/0.001	4.4~88.5/0.01
DCT20	1~20/0.002	100~2000/0.2	10~200/0.02	0.7~14.8/0.002	8.9~177/0.02

Specifications

Measuring Range	5%~100% capacity
Accuracy	± 0.3% reading
Clamping Range	Φ19.5 ~ Φ190
Units	N·m, N·cm, kgf·cm, lbf·ft, lbf·in
Display	240*160 matrix LCD with Backlight
Overload	120% F.S.
Display Mode	Digital/Diagram
Measuring Mode	Track, Peak, AutoPeak,FirstPeak,Double Peak,Preset Auto First Peak
Sampling Rate	16 kHz(max.)
Memory	1000 data
Output	USB, Set point output, RS232C
Power	3.6VDC Ni-MH rechargeable batteries Universal USB charger, Input:100~240VAC
Dimension	197X183X142 mm
Weight	~ 2.5 kg



Digital Display

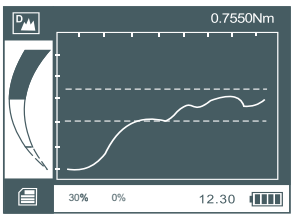
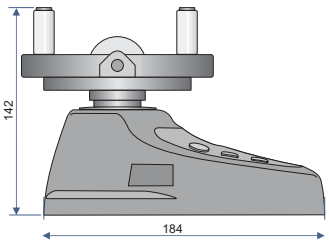
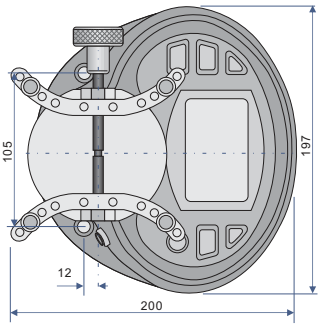


Diagram Display





Optional

Mini Printer



Rs232 Cable



Torque Test Stand



Package





DIGITAL CAP TORQUE METER

BT Series Bottle Cap Testers are designed to measure the torque of bottle caps. Adjustable posts can grip a wide range of bottle shapes and sizes effectively. Simple operation and easy to use, large easy-to-read LCD display, big data memory.

FEATURES:

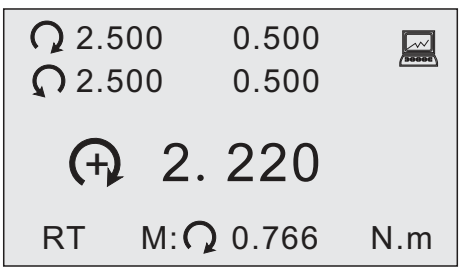
- Clockwise and anticlockwise direction icon indication
- 3 units of measurements: N.m, kgF.cm, lbF.in
- 0.3% FS high accuracy and high resolution
- 4 modes of measurement: Real time,peak,save,average
  Average mode:calculates average readings over time
- Upper and lower limit setting for tolerance checking with three different colors indicator lamp
  Backlight and buzzer inside, make screen more brightness and overload alarm
  Individual data memory for up to 100 readings
- Power saving mode of automatic shutoff without any operation
- Micro printer inside and print saved data.
- USB output, export saved data to the data software and view the load graph over time via graph software

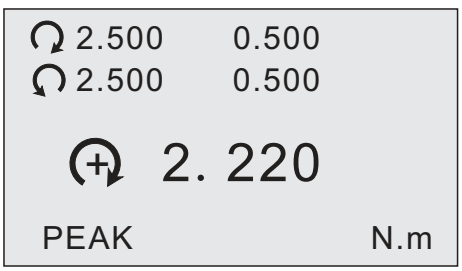


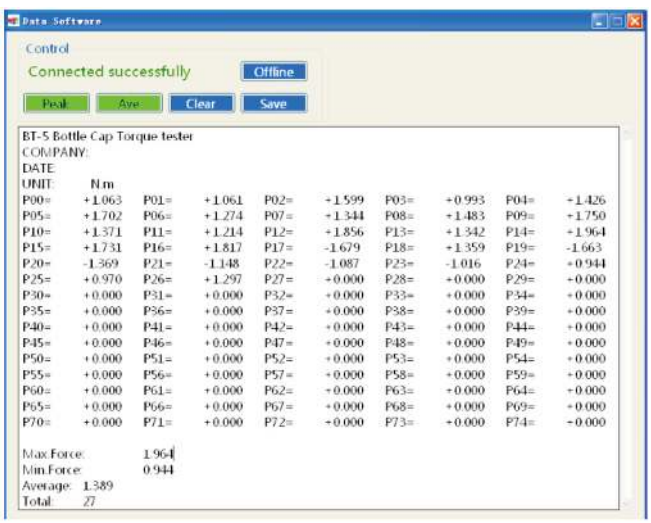
TECHNICAL SPECIFICATION

Model No.	BT-2	BT-5	BT-10	BT-20
Capacity	2 N.m	5 N.m	10 N.m	20 N.m
Resolution	0.001 N.m	0.001 N.m	0.005 N.m	0.01 N.m
Accuracy	0.3% FS			
Units	N.m, kgF.cm, lbF.in			
Weight	9 kgs			
Dimension	28×21×20 cm			

SCREEN









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DIGITAL TORQUE METER

FEATURES:

- Peak holding and auto-releasing function: Catching and holding the peak value in test, the peak holding time can be set(1-10 seconds);
- Automatic power off function: This function saves battery and keeps the gauge safe, also the power off time(1-60minutes) can be set By yourself;
- Comparing function: Initial input of the tolerance limit(Max/Min)enables the device to judge the measured result as Go(Green pilot lamp)/NG(Red pilot lamp);
- Memory function: Memory 10 testing data, and calculate the average;
- Three units conversion: Converting three units(N.m, kgf.cm, ibf.in) automatically; Inside printer: Printing testing curve and analysis report of 10 groups of tested data.



TECHNICAL SPECIFICATION

Model No.	TR-50	TR-100	TR-200	TR-500
Capacity	50N.m	100N.m	200N.m	500N.m
Graduation	0.02N.m	0.05N.m	0.1N.m	0.2N.m
Accuracy	Sensor inside			
Sensor	±1%FS			
Test speed	≤5000rpm			
Power	220±10% v 100w			
Weight	22KG			

DIGITAL DYNAMIC TORQUE METER

FEATURES:

- Peak holding and auto-releasing function: Catching and holding the peak value in test, the peak holding time can be set(1-10 seconds);
  Automatic power off function: Power off time (1-60minutes) can be set by yourself; Comparing function: Initial input of the tolerance limit(Max/Min)enables the device to judge the measured result as Go(Green pilot lamp)/NG(Red pilot lamp);
  Memory function: Memory 10 testing data, and calculate the average;
  Units conversion: Converting three units(N.m,kgf.cm,ibf.in) automatically;
  Printer inside: Printing the tested curve or the analysis report of 10 groups value;
  RS-232C output: Connecting outside equipment and using the related CD for transmitting



Digital Dynamic Torque Meter, an intelligent metrologic instrument, designed for detecting various dynamic torque, is specialized in calibrating the output torque of all kinds of electrical machineries and moderating machines. It is applied to trades such as electrical machineries, machine-building, scientific research institution, etc

TECHNICAL SPECIFICATION

Model No.	TR-1D	TR-2D	TR-5D	TR-10D	TR-20D	TR-50D	TR-100D	TR-200D	TR-500D
Capacity	1N.m	2N.m	5N.m	10N.m	20N.m	50N.m	100N.m	200N.m	500N.m
Graduation	0.0005N.m	0.001 N.m	0.002 N.m	0.005 N.m	0.01 N.m	0.02 N.m	0.05 N.m	0.1 N.m	0.2 N.m
Accuracy	Sensor inside								
Connection size	±1%FS								
Max speed	≤5000rpm								
Power	220±10% v 100w								
Weight	22KG								

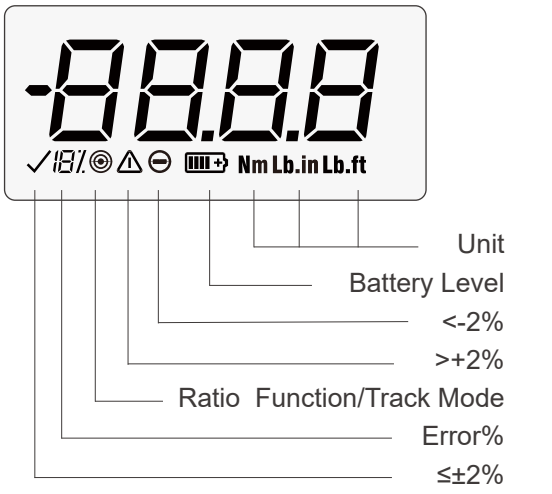
DIGITAL TORQUE WRENCH



FEATURES:

- Accuracy: CW±2%, CCW±3% from 10% to 100% of capacity.
- Display range: 2% to 110% of maximum torque value.
- Units: Lbft, Lbin, Nm.
- Modes: Peak Torque mode, Track mode.
- Target torque can be set.
- LED light and buzzer alarming when reaches target torque.
- Automatic zero clearing when used continuously.
- Optional backlight, good for dark working condition.
- Torque error% display function.
- Battery level display.
- Automatically shut off after 2 minutes of non use.
- 3 Pcs AAA batteries, easy replacement.





TECHNICAL SPECIFICATION

Metric

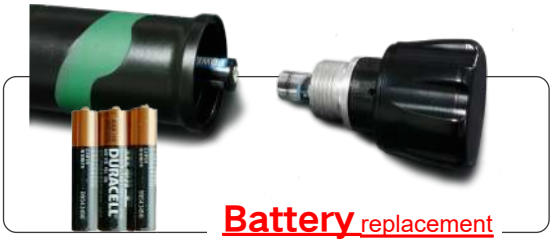
Model No.	Square Drive	Torque Range		Length	Width	Weight
		N.m	Lb.ft	mm	mm	kg
ET220	1/4"	2-20	17.7-177*	427	38	0.88
ET330	3/8"	3-30	26.6-266*	427	38	0.88
ET550	3/8"	5-50	44.3-443*	452	38	0.93
ET1100	3/8"	10-100	7.4-73.8	482	38	1
ET2200	1/2"	20-200	14.8-148	522	40	1.12
ET3300	1/2"	30-300	22.1-221	590	40	1.27
ET4400	3/4"	40-400	29.5-295	795	57	3.3
ET6600	3/4"	60-600	44.3-443	1050	60	4.6
ET8800	3/4"	80-800	59.0-590	1250	60	5.2
ET11000	3/4"	100-1000	73.8-738	1250	60	5.2

*Unit is Lb.in

English

Model No.	Square Drive	Torque Range		Length	Width	Weight
		Lb.ft	N.m	mm	mm	kg
EE200	1/4"	20-200*	2.3-22.6	427	38	0.88
EE250	3/8"	25-250*	2.8-28.2	427	38	0.88
EE450	3/8"	45-450*	5.1-50.8	452	38	0.88
EE100	3/8"	10-100	13.6-136	482	38	1
EE150	1/2"	15-150	20.3-203	522	40	1.12
EE251	1/2"	25-250	33.9-339	590	40	1.27

*Unit is Lb.in



WINDOW SCALE ADJUSTABLE TORQUE WRENCH

FEATURES:

- Accuracy: ±4% in clockwise direction from 20% to 100% of capacity.
- Unique double window scale with fine increments.
- 1/20 of increment on main scale.
- Convenient Metric or English major scale with English or Metric secondary scale.
- Pull-push locking design at the end of the handle secures the selected torque from accidental change.
- Ergonomic, non-slip soft grips are comfortable to use under all conditions and long durations.
- Reversible ratchet head, fine-tooth ratchets suitable for operation in confined spaces requiring only 8 degrees swing.





Double Window Scales



❶ Pull to unlock ❷ Turn the handle to adjust the torque ❸ Push to lock



Matching Sockets

TECHNICAL SPECIFICATION

Model No.	Square Drive	Torque range		Increment	Length	Width	Weight
		N.m	Lb.f	N.m	mm	mm	kg
CM12	1/4"	2.5-12	20-105*	0.025	285	38	0.54
CM20	1/4"	4.0-20	30-180*	0.05	285	38	0.54
CM30	3/8"	6.0-30	50-250*	0.075	313	38	0.68
CM31	1/2"	6.0-30	50-250*	0.075	313	38	0.68
CM60	3/8"	10-60	9-45	0.25	383	38	0.82
CM61	1/2"	10-60	9-45	0.25	383	38	0.82
CM100	3/8"	20-100	15-75	0.25	438	38	0.9
CM101	1/2"	20-100	15-75	0.25	438	38	0.9
CM225	3/8"	25-125	20-90	0.25	438	38	0.9
CM126	1/2"	25-125	20-90	0.25	438	38	0.9
CM200	1/2"	40-200	30-150	0.5	463	40	1.02
CM335	1/2"	65-335	50-250	0.75	523	40	1.16
CM336	3/4"	65-335	50-250	0.75	523	40	1.2
CM500	3/4"	100-500	80-400	1.25	840	60	4.04
CM800	3/4"	160-800	120-600	2	1040	60	4.93
CM801	1"	160-800	120-600	2	1040	60	4.93
CM1000	3/4"	200-1000	150-750	2.5	1040	60	4.93
CM1001	1"	200-1000	150-750	2.5	1040	60	4.93
CM1500	1"	300-1500	200-1100	3	1250	75	8.2
CM5000	1"	400-2000	300-1500	5	1250	75	8.2
CM3000	1"	600-3000	400-2200	7.5	1250	75	9.5
CM200L	1/2"	40-200	30-150	0.5	525	40	1.14
CM335L	1/2"	65-335	50-250	0.75	700	40	1.95
CM336L	3/4"	65-335	50-250	0.75	700	40	2

*Unit is Lb.in; L is extended length type

Shockproof package

Specially designed for our torque products



100% Calibrated

Unique serial number for each torque wrench, corresponding to the certificate of calibration



MICROMETER ADJUSTABLE TORQUE WRENCH



FEATURES

- Accuracy: ±4% in clockwise direction from 20% to 100% of capacity.
- All steel construction, superb durability.
- Permanently stamped major and minor scales for precision torque values setting.
- Set torque by locking ring. The rebound self-locking structure can reliably lock the required torque.
- Grooved non-slip grip fits comfortably in your hand. Reversible ratchet head, fine-tooth ratchets suitable for operation in confined spaces requiring only 8 degrees swing.
- International standards:DIN ISO6789,ASME B107.14

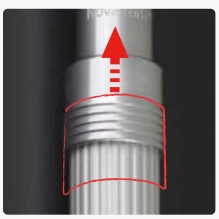
Torque Locking



1 Pull and hold the locking ring

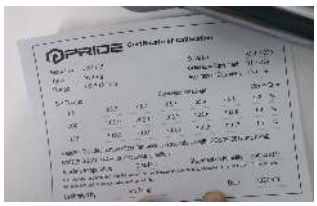


2 Rotate the tube to adjust the torque by the other hand



3 Release the locking ring after torque being set

Model No.	Square Drive	Torque Range		Increment	Length	Width	Weight
		N.m	Lb.ft	N.m	mm	mm	kg
TWM12	1/4"	2.5-12	20-105*	0.1	290	38	0.68
TWM20	1/4"	4.0-20	30-180*	0.1	290	38	0.68
TWM30	3/8"	6.0-30	50-250*	0.2	318	38	0.82
TWM31	1/2"	6.0-30	50-250*	0.1	318	38	0.82
TWM60	3/8"	10-60	9-45	0.5	388	38	0.96
TWM61	1/2"	10-60	9-45	0.5	388	38	0.96
TWM100	3/8"	20-100	15-75	0.5	443	38	1.04
TWM101	1/2"	20-100	15-75	0.5	443	38	1.04
TWM125	3/8"	25-125	20-90	0.5	443	38	1.04
TWM126	1/2"	25-125	20-90	0.5	443	38	1.04
TWM20	1/2"	40-200	30-150	1	468	40	1.16
TWM335	1/2"	65-335	50-250	1	528	40	1.3
TWM336	3/4"	65-335	50-250	1	528	40	1.34
TWM500	3/4"	100-500	80-400	2.5	855	60	5
TWM800	3/4"	160-800	120-600	4	1055	60	5.9
TWM811	1"	160-800	120-600	4	1055	60	5.9
TWM1000	3/4"	200-1000	150-750	5	1055	60	5.9
TWM1001	1"	200-1000	150-750	5	1055	60	5.9
TWM1500	1"	300-1500	200-1100	5	1260	75	9.2
TWM2000	1"	400-2000	300-1500	10	1260	75	9.2
TWM3000	1"	600-3000	400-2000	15	1260	75	10.5
TWM200L	1/2"	40-200	30-150	1	525	40	1.29
TWM335L	1/2"	65-335	50-250	1	700	40	2.1
TWM336L	3/4"	65-335	50-250	1	700	40	2.15
TWM500L	1"	300-1500	200-1100	5	1600	75	13
TWM2000L	1"	400-2000	300-1500	10	1600	75	13
TWM3000L	1"	600-3000	400-2000	15	1840	75	15.2





*Unit is Lb.in; L is extended length version

MECHANICAL TORQUE WRENCH



FEATURES

- Accuracy is ±4% from 20-100% of capacity.
- All metal structure, alloy steel pipe, durable.
- Clear scale, easy to read
- Minor scale is 1/10 of increment of main scale
- Pull to unlock lock ring keeps selected torque secure from ccidental change.
- Quick release head
- Grooved non-slip grip

TECHNICAL SPECIFICATIONS

Model No.	Driver	Range [N.m]	Fine Scale [N.m]	Length [mm]	Weight [Kg]
MS525	1/4"	5-25	0.25	250	0.35
MS1060	3/8"	10-60	0.5	310	0.47
MS1061	3/8"	10-60	0.5	415	0.92
MS1062	1/2"	10-60	0.5	425	0.98
MS10110	3/8"	10-110	0.5	460	1.06
MS10111	1/2"	10-110	0.5	470	1.17
MS30210	1/2"	30-210	1	490	1.26
MS60330	1/2"	60-330	1.5	565	1.34
MS100550	3/4"	100-550	2.5	900	4.3
MS160800	3/4"	160-800	4	1200	5.6
MS2001000	3/4"	200-1000	5	1200	5.6

TORQUE SCREWDRIVER



FEATURES

- Anti backlash designs assures that fasteners will not be accidentally un-tightened
- Stable torque output
  Standard l /4"square drive accommodates most commercially available sockets and screwdrivers
- Complies with US ASMEB l 07.14 standad , accuracy:±6%
- Lock ring on adjustable models prevents accidental changes of set toque value
- The aluminum handle is anodized for good appearance and lasting finish

TECHNICAL SPECIFICATIONS

Model No.	Square drive	Torque cN.m	Increment cN.m	Length mm	Width mm	Weight mm
TS50	1/4"	10-50	1	170	30	0.32
TS100	1/4"	20-100	2	170	30	0.32
TS250	1/4"	50-250	5	170	30	0.32
TS360	1/4"	60-360	5	170	30	0.35
TS600	1/4"	1-6N.m	1	175	30	0.35

DIAL TORQUE WRENCH DUAL TYPE

APPLICATION

Dial Torque Wrenches are designed for the automotive, nuclear and industrial markets in addition to military installations throughout the world. This series features sturdy torsion beam design for dependable long life and accuracy. The small frame model offers working ranges from 3 in. lbs. to 50 ft. lbs. in 1/4" and 3/8" drives.
The large frame model continues from 100 ft. lbs. through 2,000 ft. lbs. with 1/2", 3/4" and 1" drives. Accuracy of both series of ± 4% meets or exceeds ASME B107.14-1994, ISO 6789 bi-directionally from 20% to 100% of scale.



FEATURES

- **DUAL SCALE TYPE**
- Sturdy body construction insures durability
- Easy to read laser marked dual scale
- Large easy to read dial is shock resistant and protected by a tough metal guard
- Memory needle retains highest torque reading applied
- Calibrated in both CW and CCW direction
- Accuracy: ± 4% of indicated value, CW & CCW, from 20% to 100% of full scale



TECHNICAL SPECIFICATION

Model No.	Metric system		British measurement		Spigot size (mm)	Length (mm)	Package
	Torque range	Division value	Torque range	Division value			
STW-1.8	0-18dNm	.25dNm	0-15in.lb	.25in.lb	6.3 (1/4")	254	Hollow plastic case
STW-3.5	0-3.5Nm	.1Nm	0-30in.lb	.5in.lb	6.3 (1/4")	254	Hollow plastic case
STW-6	0-6Nm	.1Nm	0-50in.lb	1in.lb	6.3 (1/4")	254	Hollow plastic case
STW-9	0-9Nm	.2Nm	0-75in.lb	1in.lb	6.3 (1/4")	254	Hollow plastic case
STW-9A	0-9Nm	.2Nm	0-75in.lb	1in.lb	9.5 (3/8")	254	Hollow plastic case
STW-12	0-12Nm	.2Nm	0-100in.lb	2in.lb	9.5 (3/8")	254	Hollow plastic case
STW-18	0-18Nm	.5Nm	0-150in.lb	2in.lb	9.5 (3/8")	254	Hollow plastic case
STW-24	0-24Nm	.5Nm	0-200in.lb	4in.lb	9.5 (3/8")	254	Hollow plastic case
STW-30	0-30Nm	.5Nm	0-250in.lb	5in.lb	9.5 (3/8")	254	Hollow plastic case
STW-35	0-35Nm	1Nm	0-300in.lb	5in.lb	9.5 (3/8")	254	Hollow plastic case
STW-70	0-70Nm	2Nm	0-600in.lb	10in.lb	9.5 (3/8")	378	Hollow plastic case
STW-140	0-140Nm	2.5Nm	0-100ft.lb	2ft.lb	12.5(1/2")	546	Hollow plastic case
STW-240	0-240Nm	5Nm	0-175ft.lb	5ft.lb	12.5(1/2")	546	Hollow plastic case
STW-350	0-350Nm	10Nm	0-250ft.lb	5ft.lb	12.5(1/2")	546	Hollow plastic case
STW-480	0-480Nm	10Nm	0-350ft.lb	10ft.lb	19 (3/4")	708	Hollow plastic case
STW-800	0-800Nm	20Nm	0-600ft.lb	10ft.lb	19 (3/4")	1181	Hollow plastic case
STW-1000	0-1000Nm	20Nm	0-700ft.lb	10ft.lb	25.4 (1")	1310	Wooden case
STW-1400	0-1400Nm	20Nm	0-1000ft.lb	20ft.lb	25.4 (1")	1900	Wooden case
STW-2000	0-2000Nm	40Nm	0-1500ft.lb	30ft.lb	25.4 (1")	2400	Wooden case
STW-2800	0-2800Nm	50Nm	0-2000ft.lb	40ft.lb	25.4 (l")	3100	Wooden case

*NOTE: STW-800, STW-1000,STW-1400,STW-2000 and STW-2800 include Extension handle.

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DIGITAL TORQUE SCREWDRIVER

FEATURES

- Accuracy: ı 2%
- It will automatically shut down if there is no operation for 10 minutes to save power.
- Operate clockwise and counterclockwise.
- Three working modes of real time, peak value and preset value can be switched freely.
- Four torque unit options (N.m, lbf.ft, lbf.in, kgf.cm).
- It has the function of storing data in peak mode.
- Torque direction mark and battery power display.
- Overload protection: After the product is forced to 120% of the full range, the screen will display "oLoRd", indicating that it is overloaded and cannot continue to be applied.



TECHNICAL SPECIFICATIONS

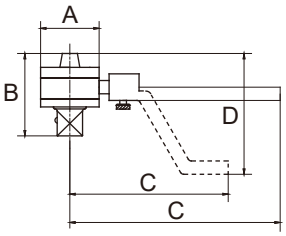
Model No.	Range (N.m)	Division value (N.m)	Accuracy	Nominal size of inner hexagon		Net weight
				inch	mm	(kg)
DTS505	0.05-0.5	0.0001	±2%	1/4	6.35	0.4
DTS220	0.2-2	0.001		1/4	6.35	
DTS440	0.4-4	0.001		1/4	6.35	
DTS880	0.8-8	0.001		1/4	6.35	

TORQUE MULTIPLIER

FEATURES

- Alloy steel construction, long life.
- Ratio accuracy: ±5%.
- There are three types of M series:
  M3.model, two reaction arms are available.
  M5 and M25 models, the position of the force cylinder on the reaction arm can be adjusted according to applications.
  Above 1500Nm, the model has anti-backlash built-in, more secure to operate.





Metric

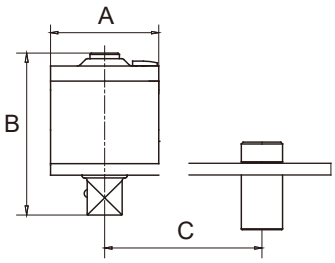
Model No.	Square Drive	Output Square Drive	Torque Range N.m	Torque Range Lb.ft	Ratio	A mm	B mm	C mm	D mm	Tool Weight kg	Reaction Arm Weight kg
TM1000	1/2"	3/4"	1000	750	3.3:1	71	85	245/175	130	1.4	0.77+0.63



TM1500



TM2500-TM1000



TECHNICAL SPECIFICATION

Model No.	Square Drive	Output Square Drive	Torque Range N.m	Torque Range Lb.ft	Ratio	A mm	B mm	C mm	Tool Weight kg	Reaction Arm Weight kg
TM1500	1/2"	1"	1500	1125	5:1	112	93	82-187	6.1	1.2
Model No.	Square Drive	Output Square Drive	Torque Range N.m	Torque Range Lb.ft	Ratio	A mm	B mm	C mm	Tool Weight kg	Reaction Arm Weight kg
TM2500	1/2"	1"	2500	1875	25:1	112	141	82-187	8.8	1.2
TM3000	1/2"	1"	3000	2250	25:1	112	141	82-187	8.8	1.2
TM3500	1/2"	1 1/2"	3500	2600	25:1	112	167	82-187	9.7	1.2
TM4000	1/2"	1 1/2"	4000	3000	25:1	112	167	82-187	9.7	1.2
TM4500	1/2"	1 1/2"	6000	4500	25:1	130	179	94.5-211	14.2	2.15
TM6000	1/2"	1 1/2"	8000	6000	25:1	162	195	130-294	23.8	3
TM10000	3/4"	1 1/2"	10000	7375	25:1	162	199	130-294	23.9	3

PNEUMATIC TORQUE WRENCH

—— **Pneumatic torque wrenches** were widely used on automotive vehicles, petrochemicals, shipbuilding, electric power, aerospace, construction and other fields.

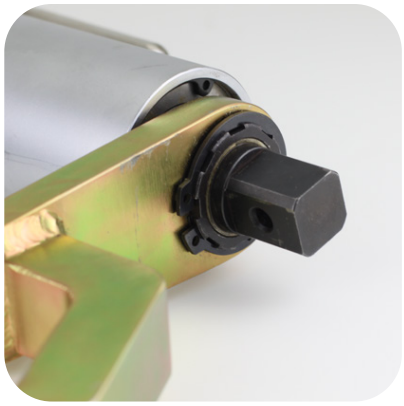


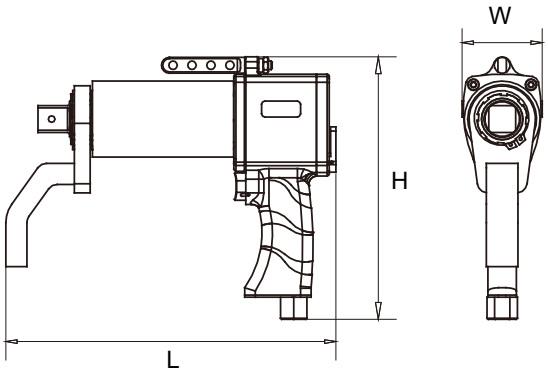
FEATURES

- For high torque and continuous work applications.
- Aluminum alloy handle, relatively light weight.
- Reaction arm, gear box and body can be flexibly connected to reach desired reaction point.
- Work in Clockwise and Counter-clockwise directions.
- Can be used with standard impact sockets.









TECHNICAL SPECIFICATIONS

Model No.	Output Square Drive	Gear box Diameter	Dimensions LxWxH mm	Torque Range N.m	Weight kg	Max. Pressure
PN350	3/4"	Φ50	259x65x250	70-350	3.1	6bar
PN800	3/4"	Φ59	272x75x252	160-800	4.3	6bar
PN1000	3/4"	Φ72	283x75x252	200-1000	5.7	6bar
PN1001	1"	Φ72	283x75x252	200-1000	5.7	6bar
PN2000	1"	Φ92- Φ59	370x100x267	400-2000	8.8	6bar
PN2500	1"	Φ92- Φ59	370x100x267	500-2500	9.3	6bar
PN4000	1"	Φ108- Φ59	400x108x270	800-4000	12	6bar
PN5000	1 1/2"	Φ108- Φ59	400x108x270	1000-5000	12	6bar
PN6000	1 1/2"	Φ126- Φ59	488x100x264	1200-6000	16	6bar

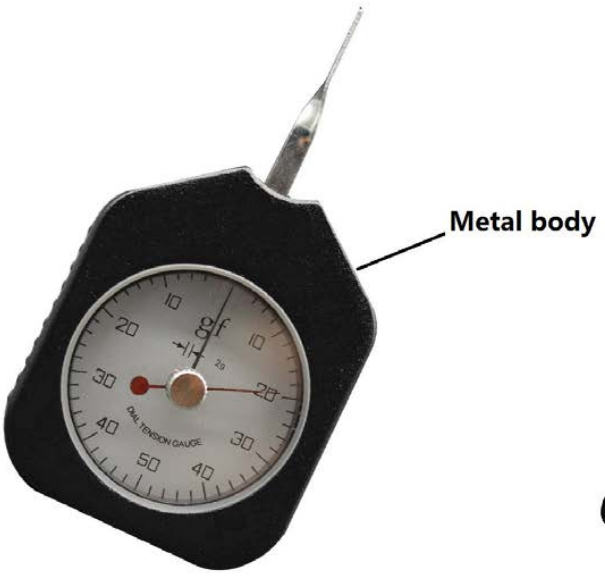
Please contact distributor for Impact Sockets.



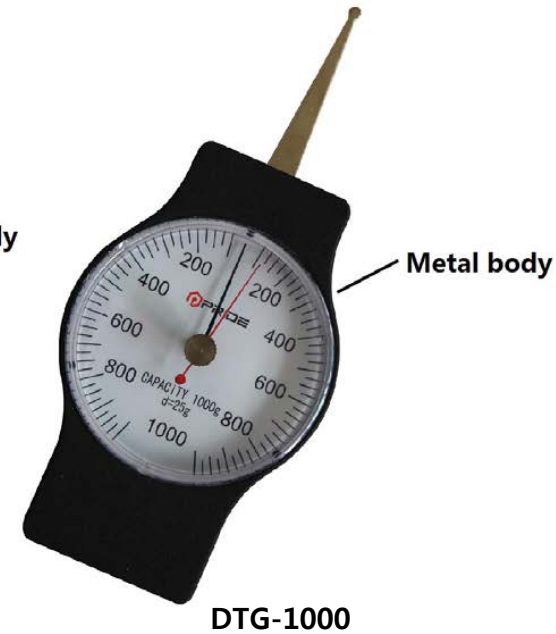
DIAL TENSION GAGE

FEATURES:

- The Dial Tension Gauge is applied to the test of the contact point pressure of relay,electronic swith and mini switch etc., and the pressure, and the pressure ,pulling force of other accurate appliances.
- Dial tension gage is the handy measuring instrument from 5g o 4000g,vailable in different models and wide usages
- Tip Configuration: Flat tip for line contact.
- Tension / Compression: Reads both clockwise and counterclockwise.
- Peak Force Pointer: Holds maximum force reading - avialable with most models.
- Calibration: Small hole in flat tip permits accuracy checks with test weights.
- Accuracy: Accuracy: ±2% of full scale



DTG-50



DTG-1000

TECHNICAL SPECIFICATIONS

unit:g

Model No.	Measuring range	Graduation (Gram)	Accuracy	Starting size
DTG-10	2-10g	0.2g	±2%	1g
DTG-30	5 - 30g	1g	±2%	3g
DTG-50	10-50g	1g	±2%	5g
DTG-100	20 - 100g	2g	±2%	10g
DTG-150	25 - 150g	5g	±2%	15g
DTG-300	50-300g	10g	±2%	30g
DTG-500	100-500g	10g	±2%	50g
DTG-1000	200-1000	25g	±2%	100g
DTG-2000	500-2000	50g	±2%	250g
DTG-4000	1000-4000	100g	±2%	700g

unit:N

Model No.	Measuring range	Graduation	Accuracy	Starting size
DTN-0.1	0.02N-0.1N	0.002N	±2%	0.01N
DTN-0.15	0.025N-0.15N	0.005N	±2%	0.015N
DTN-1	0.2N-1N	0.02N	±2%	0.1N
DTN-1.5	0.25N-1.5N	0.05N	±2%	0.15N
DTN-3	0.5N-3N	0.1N	±2%	0.3N
DTN-5	1N-5N	0.1N	±2%	0.5N

PRIDE®

COATING THICKNESS GAGE
ULTRASONIC THICKNESS GAGE
SURFACE ROUGHNESS TESTER
ULTRASONIC FLAW DETECTOR
ULTRASONIC CALIBRATION BLOCK
CURRENT FLOW TEST PIECES
KETOS TEST RING
PIE GAGE
FIELD INDICATOR
TEST BLOCK MTU-3
CENTRIFUGE TUBE & STAND
MAGNETIC YOKE FLAW DETECTOR
ALUMINUM TEST BLOCK
TAM PANELS
DIGITAL CONCRETE TEST HAMMER
CONCRETE TEST HAMMER
CALIBRATION ANVIL
INDUSTRIAL ENDOSCOPE
VIBRATION TESTER





COATING THICKNESS GAUGE CG510PL

The newly developed thickness gauge CG510PL is very solid and has a high accuracy. The simple and safe operation is done by menu navigation. Complicated and time-intensive settings are therefore eliminated.



Precise and Practical

for layers up to 10 mm

FEATURES

- Measuring range of 0-1250 micron (F1 standard probe)
- Measuring range of 0-10 mm (F10 special probe)
- High accuracy
- Switch between mil and micron
- Upper and lower limits can be preset; with visual and audible alarm when exceeding
- 2 measuring modes: continuing mode and single mode
- 2 operation modes: direct mode with 99 storage places and batch mode with 495 locations (5 blocks with 99 values each)
- Automatic recognition of the probes
- Quick calibration and zeroing of the instrument

	Probe model	F1	Special probe F10	F400	N1	N02
	Base material (substrate)	iron or steel			non-magnetic metals such as aluminum, zinc, copper, brass, some stainless steel grades	
	Layers	paints, lacquers, plastics, chromium, copper, zinc, enamel, etc. (non-magnetic)			anodized aluminum, lacquer, enamel, plastics, paper, glass, rubber, etc. (non-conductive)	
	Function principle	magnetic induction			eddy current	
	Measuring range	0-1250 µm (0-1.25 mm) 0-49 mil	**0-10000 µm (0-10 mm) 0-394 mil**	0-400 µm (0-0.4 mm) 0-16 mil	0-1250 µm (0-1.25 mm) 0-49 mil	10-200 µm (0.01-0.2 mm) 4-8 mil
	Low range resolution	0.1 µm	10 µm	0.1 µm	0.1 µm	1 µm
Accuracy (H=nominal value)	One-point-calibration	±(3%H +1) µm	±(3%H +10) µm	±(3%H +1) µm	±(3%H +1.5) µm	±(3%H +1) µm
Accuracy (H=nominal value)	Two-point-calibration	±((1-3)%H +1) µm	±((1-3)%H +10) µm	±[(1-3)%H +0.7] µm	±[(1-3)%H +1.5] µm	---
Measuring conditions	Min. curvature radius	1.5 mm	10 mm	convex / 1 mm	3 mm	only flat
Measuring conditions	Diameter of minimum area	Ø 7 mm	Ø 40 mm	Ø 3 mm	Ø 5 mm	Ø 7 mm
Measuring conditions	Critical thickness of substrate	0.5 mm	2 mm	0.2 mm	0.3 mm	no limit
	Salu*Tron*® D6	Specifications				
	Memory capacity	2 operation modes: direct mode with 99 storage places and batch mode with 495 locations (5 blocks with 99 values each)				
	Power supply	2 x 1.5 V Mignon Alkali				
	Size	125 x 65 x 30 mm or 4.7“ x 2.6“ x 0.9“				
	Weight	340 g (with batteries) or 11 oz				

Technical details subject to change.

FUNTIONS

- Statistic values: mean number of measurements, standard deviation
- 2 methods for calibration: 2-point or zero calibration error system of the probe can be corrected with basic calibration method
- Switch between manual and automatic memory
- Delete function: single data or all data in memory
- Analysis of measured values via histogram
- Acoustic signal after each measurement / buttons beep adjustable
- Backlight
- Low battery indicator
- Automatic or manual shutdown
- Transfer of results to PC

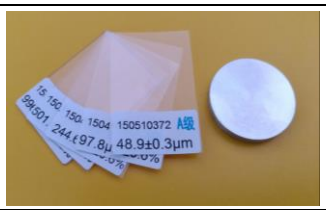
STANDARD DELIVERY

- Fe (F1) - or NFe (N1)-probe
- 5 Standard test plates
- 1 Substrate
- Stable service case
- Manual
- RS232 cable and software for PC transfer

Optional:

- Other probes

TECHNICAL SPECIFICATION OF OPTIONAL PROBE

	**F1 probe - Fe base** Measuring range: 0~1250μm F1 probe measure the thickness of non-magnetic coating layers covered on magnetic substrate. Such as: non-magnetic (aluminum, chrome, copper, enamel, rubber, paint) covered on magnetic substrate (steel, alloy and magnetic stainless steel)
	**N1 probe - Al base** Measuring range: 0~1250μm N1 probe can measure the thickness of non-conductive coatings layers covered on conductive substrate. Such as: (enamel, rubber, paint, vanish, plastic anodic-oxide layer) covered on conductive substrate (aluminum, brass, zinc and nonmagnetic stainless steel).
	**F3 Probe- Fe base** Measuring range: 0~3000μm F3 probe measure the thickness of non-magnetic coating layers covered on magnetic substrate. Such as: non-magnetic (aluminum, chrome, copper, enamel, rubber, paint) covered on magnetic substrate (steel, alloy and magnetic stainless steel)
	**N3 Probe- Al base** Measuring range: 0~1250μm N3 probe can measure the thickness of non-conductive coatings layers covered on conductive substrate. Such as: (enamel, rubber, paint, vanish, plastic anodic-oxide layer) covered on conductive substrate (aluminum, brass, zinc and nonmagnetic stainless steel).
	**F1/90° probe - Fe base** Measuring range: 0~1250μm F1/90° use to measuring surface that can't be touch by ordinary probe, it can measure the thickness of non-magnetic coating layers covered on magnetic substrate. Such as: non-magnetic (aluminum, chrome, copper, enamel, rubber, paint) covered on magnetic substrate (steel, alloy and magnetic stainless steel)
	**F10 probe - Fe base (Large range)** Measuring range: 0~10000μm F10 probe measure the thickness of non-magnetic coating layers covered on magnetic substrate. Such as: non-magnetic (aluminum, chrome, copper, enamel, rubber, paint) covered on magnetic substrate (steel, alloy and magnetic stainless steel)
	**ST-1250 Standard coating thickness calibration pieces** Standard thickness value between 0~1250μm 5pcs/set, include Fe or Al base **ST-10000 Standard coating thickness calibration pieces (Large range)** Standard thickness value between 0~10000μm 5pcs/set, include Fe or Al base

Technical details subject to change.

SPLIT TYPE COATING THICKNESS GAUGE CG15^

FEATURES:

- Magnetic and eddy current thickness measurement methods are adopted
- Two measuring methods integrated in one probe, recognize Fe or NFe base automatically
- 2.4'' IPS TFT with 320*240 pixels, high definition display shows more details
- Three measuring modes, more accurate and stable
- It has the function of temperature compensation of probe, which makes the measurement more accurate
- It has five statistics, which makes the measurement more convenient
- Various calibration methods are adopted
- It has storage function, and can store up to 500 measurement values
- It has the function of deletion, which is convenient for new measurement
- It can set the gauge and alarm the measured value outside the gauge automatically



TECHNICAL SPECIFICATION

unit:mm

Probe Type		F	N
Working Theory		Magnetic	Eddy Current
Testing Range (um)		0-1250	0-1250 0-40 (Chromium plating on copper)
Resolution(um)		0.1	0.1
Displaying Value	Zero point calibration (um)	±(3%H+1)	±(3%H+1)
	2 points calibration (um)	±((1-3)%H+1)	±((1-3)%H+1)
Testing Condition	Min. radius of curvature(mm)	Convex 1.5	Convex 3.0
	Min. Area Diameter (mm)	Φ7	Φ 5
	Zero boundary thickness of matrix (mm)	0.5	0.3
Temperature		0 C --40 C	
Humidity		20%RH-90%RH	
Power		AAA battery x2pcs (1.5V)	
Size		155mmx68mmx27mm	
Weight		About 230g	

STANDARD ACCESSORY

Item	Quantity
Main unit	1 pc
Probe	1 pc
Calibration Foil	1 set (6 pcs)
Battery	2 pcs
Instruction Manual	1 pc



PROBE REFERRENCE

Substrate Coating	Non magnetic coating of organic materials (such as paint, paint, enamel, plastic and anodizing, etc.)	Non magnetic non-ferrous metal coating (such as chromium, zinc, aluminum, copper, tin, silver, etc.)
Such as iron, steel and other magnetic gold	F probe Testing range : 0-125um	F probe Testing range : 0-1250um
Such as copper, aluminum, brass, zinc, tin bar non-ferrous metals	N probe Testing range: 0-1250um	N probe Testing range : 0-40um (for chrome plating on copper only)

F/N COATING THICKNESS GAUGE CG140

TECHNICAL SPECIFICATION

Probe Type		F	N
Working Theory		Magnetic	Eddy Current
Testing Range(um)		0-2000	0-1500 0-40(chromium plating on copper)
Min. Resolution)(um)		0.1	0.1
Display Resolution	Zero Calibration(um)	±(3%H+1)	±(3%H+1)
	2 points calibration(um)	± { (1-3)%H+1 }	± { (1-3)%H+1 }
Testing Condition	Min. Radius of curvature(mm)	Convex 1.5	Convex 3
	Diameter Of minimum area(mm)	ø7	ø5
	Critical thickness of base(mm)	0.5	0.3
Operation condition	Temperature	0 ℃ -- 40 ℃	
	Humidity	20%RH -- 90%RH	
	Magnetic Environment	Non Strong magnetic field	



AAA battery X 3
114mm*58mm*29mm
70g(without battery)

COATING THICKNESS GAUGE CG210,CG230,CG250

G210: FERROUS
CG230: NON-FERROUS
CG250: FERROUS AND NON-FERROUS

FEATURES

- With separate probe(s)
- Operating principle: magnetic induction/eddy current (F/NF)
- Measuring range:0-1250um/0-50mil
- Resolution; 0.1/1
- Accuracy: ±1-3%n or ±2.5um
- Min. measuring area: 6mm
- Min. sample thickness: 0.3mm
- Battery indicator: low battery indicator
- Metric/ imperial: convertible
- Power supply: 4x1.5V AAA(UM-4)battery
- Auto power off
- Operating
- Conditions:0-+45℃(32℉-104℉),≤90%RH
- Dimensions: 126x65x27mm
- Weight: 81g(not including battery)
- Optional accessories: other range 0-200um to 15000um



COATING THICKNESS GAUGE CG410,CG430,CG450

G410: FERROUS
CG430: NON-FERROUS
CG450: FERROUS AND NON-FERROUS

FEATURES

- In built probe(s)
- Operating principle: magnetic induction/eddy current (F/NF)
- Measuring range:0-1250um/0-50mil
- Resolution; 0.1/1
- Accuracy: ±1-3%n or ±2.5um
- Min. measuring area: 6mm
- Min. sample thickness: 0.3mm
- Battery indicator: low battery indicator
- Metric/ imperial: convertible
- Power supply: 4x1.5V AAA(UM-4)battery
- Auto power off
- Operating
- Conditions:0-+45℃(32℉-104℉),≤90%RH
- Dimensions: 126x65x27mm
- Weight: 81g(not including battery)
- Optional accessories: other range 0-200um to 15000um



COATING THICKNESS GAUGE CG200 CG220

FEATURES:

- 1m length external probe
- Range 0~2000um, accuracy ±2.5%±1um
- 128*128dots LCD display
- Menu interface
- LCD can be rotated to be used easily
- Red LED alarm indication
- LCD shows mean, maximum, minimum and standard deviation User can set alarm limit
- Readings can be stored, recalled and deleted
- Easy to do zero calibration and support multi-point calibration
- Connect with PC via USB and download readings
- Multi-language supported
- Up to 5 measurement groups supported
- Automatically detect the substrates type(F or N)
- Unit optional: um, mm and mils



CG200





CG220

TECHNICAL SPECIFICATION

Model No.	CG200	CG220
Probe type	Fe	Fe
	NFe	NFe
Principle	Magnetic induction	Magnetic induction
	Eddy currents	Eddy currents
Range	0~1500um	0~1500um
Accuracy	±(3%+1um)	±(3%+1um)
Resolution	0~99.9um(0.1m),	0~99.9um(0.1m),
	others(1um)	others(1um)
Readings memory	320	320
Interface: USB		
Power supply: Two 1.5v AAA batteries		
Operation environment: -10 to 50ºC		
Storage environment: -10 to 60ºC		
Certificate and standard: CE, ROHS, ISO 2178, 2360		
Size and weight: 113mmX53mmX24mm 80g		

ULTRASONIC THICKNESS GAUGE UTG151

FEATURES:

- Display : 4.5 digits LCD with EL backlight.
- Measuring display mm/inch selectable
- Measuring Range : 0.75～300mm (in Steel).
- Sound Velocity Range: 1000~9999 m/s.
- Resolution : UTG-151: 0.1/0.01mm,0.01/0.001inch
- Accuracy : ± (0.5%Thickness+0.04) mm, depends on materials and conditions
- Four measurements readings per second for single point measurement, and ten per second for Scan Mode.
- Memory for up to 20 files (up to 99 values for each file) of stored values.
- Power Source : Two "AA" size, 1.5 Volt alkaline batteries. 100 hours typical operating time (EL backlight off).
- Communication : RS232 serial port for UTG-151. No communication port for UTG-150.
- Outline dimensions : 150×74×32 mm.
- Weight:245g



ULTRASONIC THICKNESS GAUGE UTG132

FEATURES:

- Display: 4-digital LCD display
- Resolution:0.01mm(1.20 to 99.99mm)
  0.1mm(100 to 300mm)
- Working frequency: 5MHz
- Measuring range: 1.20 to 300.00mm (steel)
- Minimum limit for tube measuring: Φ20*3mm (steel)
- Accuracy: +/- (1%H+0.05)mm H denotes the measured thickness.
- Sound velocity range: 1000 to 9999 m/s
- Measuring sound velocity with a given thickness: Measuring range:1000 to 9999 m/s.
- When the given thickness 20mm, the accuracy is ±5%; when the given thickness over 20mm, the accuracy is±1%.
- Operation temperature: 0℃ to 40℃
- Power supply: 3*1.5V AAA batteries
- Operation current: Normal operation current ≤45mA With Backlight turn on current ≤55mA
  Stand-by current: ≤20uA
- Size: 72*146*29mm
- Weight: 202g



www.prideinstrument.com sales@prideinstrument.com

ULTRASONIC THICKNESS GAUGE UTG180

APPLICATION

UTG180 is a digital ultrasonic thickness gauge. Based on the same operating principles as SONAR, the UTG180 is capable of measuring the thickness of various materials with accuracy as high as 0.01 millimeters, or 0.001inches. It is suitable for a variety of metallic and non-metallic materials.



TECHNICAL SPECIFICATION

- Display : 128×64 dot matrix LCD with EL backlight.
- Measuring Range : 0.75 ~ 300mm (in Steel).
- Sound Velocity Range: 1000~9999 m/s.
- Resolution : 0.1/0.01mm (selectable) .
- Accuracy : ± (0.5%Thickness+0.04) mm
- Units: Metric/English unit selectable.
- Four measurements readings per second for single point measurement, and ten per second for Scan Mode.
- Memory for 20 files (up to 99 values for each file) of stored values.
- Upper and lower limit can be pre-set. It will alarm automatically when the result value exceeding the limit.
- Power Supply : Two "AA" size, 1.5 volt alkaline batteries. 100 hours typical operating time (EL backlight off).
- Communication : RS232 serial port.
- Case : Extruded aluminum body suitable for use under poor working conditions.
- Outline dimensions : 132H X 76.2W mm.
- Weight : 345g

MAIN FUNCTIONS

- Capable of performing measurements on a wide range of material, including metals, plastic, ceramics, composites, epoxies, glass and other ultrasonic wave well-conductive materials
- Four transducer models are available for special application, including for coarse grain material and high temperature applications.
- Probe-Zero function, Sound-Velocity-Calibration function
- Two-Point Calibration function.
- Two work modes: Single point mode and Scan mode.
- Coupling status indicator showing the coupling status.
- Battery information indicates the rest capacity of the battery.
- Auto sleep and auto power off function to conserve battery life.
- Optional software to process the memory data on the PC.
- Optional thermal mini-printer to print the measured data via RS232 port.

STANDARD DELIVERY

No.	Item
1	Main body
2	Transducer N05/90é
3	Couplant
4	Instrument Case
5	Operating Manual
6	Screwdriver
7	Alkaline battery

OPTIONAL ACCESSORY

1	Transducers,see Table A
2	Mini thermal printer
3	Print cable
4	DataPro Software
5	Communication Cable

Table A: Transducer Selection

Model	Frequency MHz	Diameter mm	Measuring Range	Lower limit (work area)	Description
N02	2.5	14	3.0 mm – 300.0 mm (in Steel)	20 mm	For thick, highly attenuating, or highly scattering materials
N05	5	10	1.2 mm – 230.0 mm (in Steel)	Ø20 mm × 3.0 mm	Normal Measurement
N05 /90°	5	10	1.2 mm – 230.0 mm (in Steel)	Ø20 mm × 3.0 mm	standard transducer
N07	7	6	0.75 mm – 80.0 mm (in Steel)	Ø15 mm × 2.0 mm	For thin pipe wall or small curvature pipe wall measurement
HT5	5	14	3.0 – 200.0mm (in Steel)	30 mm	For high temperature (lower than 300 °C) measurement

ECHO TO ECHO ULTRASONIC THICKNESS GAUGE UTG430C

APPLICATION

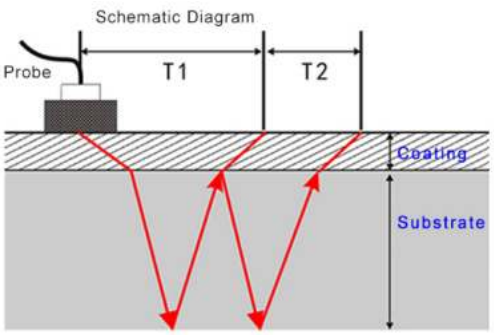
UTG430C High Resolution (0.01mm) Ultrasonic Thickness gauge with Echo-Echo mode for thru coating measurement.
UTG430C is with a specific dual echo mode. In this mode a paint layer or coating is ignored and the substrate metal measured accurately. It can be used for measuring different materials between 3mm and 20mm thicknesses.
In addition, the UTG430C has a higher resolution display providing the user with measurements to 0.01mm with increased accuracy to ±0.05mm. And the UTG430C also multiple probe recognition so users can install other, optional transducers to extend the testing capability.



FEATURES

- 0.01mm or 0.001 inches resolution
- 128*64 pixels display with backlight
- 500 thickness readings can be stored
- Hi-Low alarm setting
- Minimum thickness capture
- V-sound path correction
- Bult-in 7 types of transducer compensation line
- Through paint/coating function

PRINCIPLE OF ECHO TO ECHO



Normal thickness measurement mode measures the time difference T1 between the transmitting pulse and the first bottom echo (including the coating thickness). Through coating mode measures the time difference T2 between two continuous bottom echoes (excluding coating thickness)

TECHNICAL SPECIFICATION

Measurement Range	Standard Mode: 0.8mm to 300mm (steel) Thru Coating Mode: 3mm to 20mm
Measurement Mode	P-E (pulse-echo) E-E (echo-echo) with dual-crystal probes
Display Units	mm or inch
Sound Velocity Range	1000 to 9999 m/s
Display Resolution	0.01mm / 0.001"
Accuracy	±0.05mm (up to 10mm) ±0.5%H +0.1 mm (>10mm)
Calibration Mode	Zero, 2-point
Memory	500 readings in 5 files max.
Display Type	128×64 dot-matrix LCD screen with EL backlight

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A/B SCAN ULTRASONIC THICKNESS GAUGE UTG650







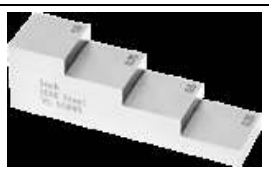
TECHNICAL SPECIFICATION

Display screen	2.4VGA(320X240) color OLED , 10000:1
Working Theory	Ultrasonic pulse / echo / echo method using double crystal probe
Testing range	0.6mm --508mm(0.025-20 inch)
Testing Resolution	0.01mm or 0.1m(0.01 or o.1inch)
Unit	Mm/inch
Display Mode	Thickness Value mode, Min./Max. Value capture mode, Difference / reduction mode
V path modification	Automatic V path correction to compensate the non-linearity of double crystal probe
Measurement update rate	4HZ,8HZ,16HZ/second optional
Velocity range	500-9999m/s, 0.0179-0.3937in/us
Language	Chinese/English/French
Alarm setting	Max./Min. Value alarm, Dynamic change of thickness reading color during alarm
Power	1.5vAA battery x 2
Power off	Manual/5,10,20 Minutes latter turning off automatic
Working Temperature	-10 C to 50 C
Size	153mmx76mmx37mm
Weight	280g(with battery)

TECHNICAL SPECIFICATION OF OPTIONAL PROBE

	**No2**(5PΦ10/90) Probe for Casting Workpiece Measuring range: 3.0-300.0mm in steel, 3.0-40.0mm in casting material Frequency: 2Mhz Min.area: 20mm
	**No5**(5PΦ10(CT-10)) Standard Probe Measuring range: 1.2-230.0mm Frequency: 5Mhz Min.area φ20x3mm Straight and 90°optional
	**No7**(7PΦ6(XT-6)) Probe for Thin Workpiece Measuring range: 0.75-80.0mm Frequency: 7Mhz Min.area φ15x2mm
	**TS32** Probe (large measuring range) Measuring range: 3-500.0mm Frequency:2Mhz Min.area φ22mm
	**HT5** (ZW5Φ14-300)Probe for High Temperature 350°C Measuring range: 3.0-200.0mm Frequency: 5Mhz Min.area: 30mm
	HT6(ZW5Φ14-450) Probe for High Temperature 450°C Measuring range: 3.0-200.0mm Frequency: 5Mhz Min.area: 30mm

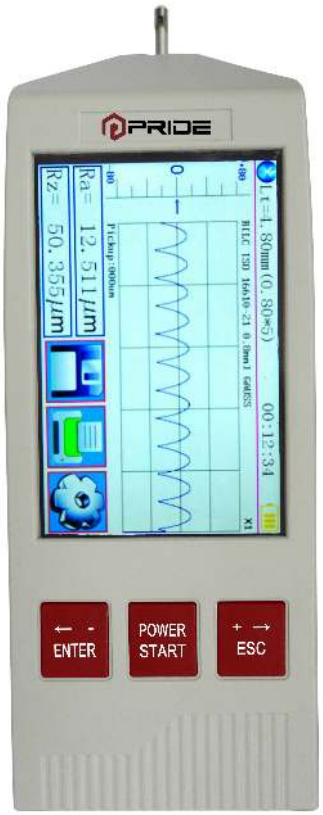
STEP TEST BLOCK

Model No.	Photo	Descriptions	Materials
U-P02-0001		4 step block Size：3mm / 5mm / 10mm / 15 mm L x W：80 x 20mm Tolerance: +/- 0.0005 inch or 0.01mm	1018 Steel ASTM E797
U-P02-0002		4 step block Size：0.250"/ 0.500"/ 0.750"/ 1.000" L x W：3.15" x 0.8" Tolerance: +/- 0.0005 inch or 0.01mm	1018 Steel ASTM E797

SURFACE ROUGHNESS TESTER RUG-450

APPLICATION

Surface Roughness Tester RUG-450 allows surface roughness measurement both on metal and non-metal workpie-ces. It can be used on variety of machining parts and operates on various surfaces, not only flat but also outer cone, outer cylinder, curved, pinholes, grooves, recesses grooves and axle etc. It is suitable for machining and manufacturing, quality control, inspection departments, especially for measurement on large and heavy workpiece, assembly line on site.





FEATURES

- Mechatronics and ergonomics design, small size, light weight, easy to operation
- The stylus drive unit can be stored within the main unit for standard measurement, or separated from the display unit by using the supplied cable which allows more flexible measurement in any orientation. The driver can be separated and reattached in one simple step.
- DSP chip control and data processing, high speed, low power consumption
- 22 Parameters: Ra ,Rz, Rq, Rt, Rp ,Rv, R3z, R3y, Rs, Rsk, Rz(JIS), Rsm, Rku, Rmr, Ry(JIS), Rmax,RPc, Rk, Rpk, Rvk, Mr1, Mr2
- Measurement range up to 160μm (can be optional to 320 μm)
- 3.5 inches color graphic TFT touch screen, wide viewing angle, excellent readability and an intuitive rich display, it
- includes a backlight to improve visibility in dark environments
- Can be operated using buttons or touch screen
- It provide Bluetooth Capability , support wireless connection with mobile and mini printer
- Built-in lithium-ion rechargeable battery and control circuit, high capacity, no memory effect, it works over 50 hours while fully charged, and there is remaining charge indicator, charging hint
- Large capacity data storage, 100 item of raw data and curves can be stored
- Real-time clock setting and display for easy data recording and storage
- Reliable circuit and software design to preventing the motor stuck
- All parameters or any of the parameters which set by users can be printed
- Optional accessories: Bluetooth capability, curved sensor, pinholes sensors, measurement, stand, extension rod, printer
- Portable Surface Roughness Tester complies with international standards ISO, DIN, ANSI, JIS

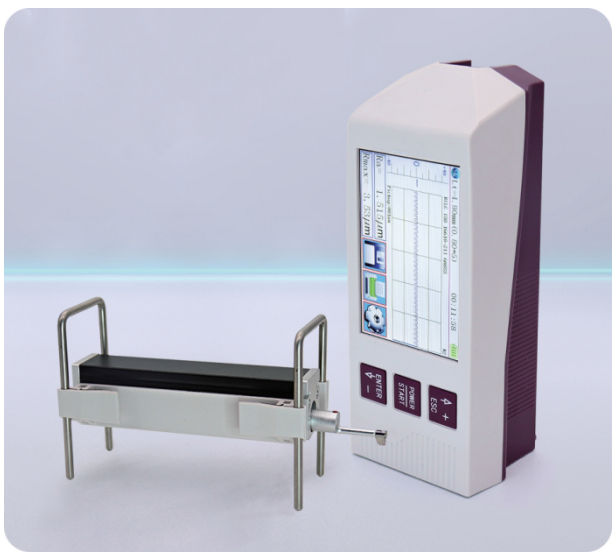
TECHNICAL SPECIFICATION

Model No.		RUG-450
Measurement Range	The Z axis (vertical)	320±(-60μm~160μm)
	The X axis (Transverse)	17.5mm
Resolution	The Z axis (vertical)	0.002μm / ±20μm
		0.004μm / ±40μm
		0.008μm / ±80μm
		0.020μm / ±160μm
Measurement item	Parameter	Ra,Rz,Rq,Rt, Rp,Rv,R3z,R3y,Rz(JIS),Rs,Rsk,Rsm,Rku,Rmr,Ry(JIS), Rmax, RPc, Rk, Rpk, Rvk, Mr1, Mr2
	Standard	ISO,ANSI,DIN,JIS
	Graphic	Bearing area curve, Roughness profile, Primary profile
Filter		RC,PC-RC,Gauss,D-P
The sampling length(lr)		0.25, 0.8, 2.5mm
Assessment length（ln）		Ln= lr×n n=1~5
Sensor	Measuring method	Skidded
	Stylus tip	Diamond, 90 cone angle, 5μmR
	Force	<4mN
	Skid part	hard alloy, skid radius of curvature: 40mm
	Traversing speed	lr=0.25, Vt=0.135mm/s
		lr=0.8, Vt=0. 5mm/s
		lr=2. 5, Vt=1mm/s
		Return Vt=1mm/s
Accuracy		Less than ±10%
Repeatability		Less than 3%
Power supply		Built-in Lithium ion battery, Charger: DC5V,3200mA
Outline dimension		Main unit: 52 x 55 x 158mm drive: 23 x 27 x 115mm
Weight（main unit）		Around 400g
working Environment		Temperature: - 20℃ ~ 40℃ Humidity: < 90% RH
Store and Transportation		Temperature: - 40℃ ~ 60℃ Humidity: < 90% RH

Measuring Range

Parameter	Range
Ra,Rq	0.005μm~32μm
Rz,R3z,Ry,Rt,Rp,Rm	0.02μm~320μm
Sk	0~100%
S,Sm	0.02~100mm
tp	0~100%





SURFACE ROUGHNESS TESTER RUG-430

FEATURES

- Easy to operate menu
- Display of 14 roughness parameters
- Wave filtering methods: RC , PC - RC , GAUSS , D-P
- Cutoff wavelength: 0.25 mm / 0.8 mm / 2.5 mm
- Displays the probe positioning
- Sensor for measurements in boreholes , openings and grooves
- USB interface
- Selectable languages: English, German



TECHNICAL SPECIFICATION

Roughness	Ra, Rz==Ry(JIS), Rq, Rt==Rmax, Rp, Rv, R3z, R3y, Rz(JIS), Rs, Rsk, Rku, Rsm, Rmr; µm/µinch switchable
Measuring range	Ra, Rq: 0,005 - 16 µm Rz, R3z, Ry, Rp, Rt, Rm: 0,02 - 80 µm RSm, RS: 1.000 µm Rsk, Tp: 100 %
Resolution	0,001 µm / 0,04 µinch
Accuracy	≤ 10%
Repeatability	≤ 6%
Cross wavelength (cut-off)	0,25 mm / 0,8 mm / 2,5 mm / Auto
Traversing length Ln	1 - 5 cut-off (selectable)
Traverising speed	0.25 mm - 0.135 mm/s 0.8 mm - 0.5 mm/s 2.25mm - 1 mm/s
Digital-filter	RC, PC-RC, GAUSS, D-P
Sensor	Standard-model TS-100, induktive, Diamond peak 5µm radius, 90°-angle
Sensor measuring range	± 20µm / ± 40µm / ± 80µm
Language	Menu: English, German
Display	128 x 64 OLED Dot Matrix Display
Power supply	Built-in 3.7V Li-Ion Battery, charger AC220V/DC5V, 800mA / 3 hour, operating time 20 hours
Surroundings	-20°C - +40ºC, ≤ 90% rel. air humidity
Norms	ISO, DIN, ANSI, JIS
Dimensions (L x W x H)	141 x 55 x 40 mm (Device without probe)
Weight	400g

Specifications are subject to change without prior notice.

SURFACE ROUGHNESS TESTER RUG-320





TECHNICAL SPECIFICATION

Roughness parameters:	*Ra (ISO), Rz (DIN), Rq, Rt*
Units of measurement:	*µm, µinch (adjustable)*
Measuring range:	*Ra: 0.05 – 15.0 µm* *Rz: 0.1 – 50 µm*
Cut-off length:	*0.25 mm / 0.80 mm / 2.50 mm*
Filter:	*2 CR*
Display:	*LED, blue*
Probing path:	*6 mm*
Probing speed:	*1.0 mm / Sec.*
Accurancy:	*Acc. to ISO class 3, EN55022, EN60555-2, EM60555-3, EN50088-1*
Measuring principle:	*Probing system, piezoelectric*
Stylus:	*Diamond, 5 mm radius*
Power supply:	*3.6V lithium-ion batteries, 9VDC charger*
Dimensions:	*L106 x W70 x H24mm*
Weight:	*200 g*
Calibration:	*With CAL function (using the keyboard)*
Minimum diameter of cylindral parts:	*40 mm (V groove)*
Main functions:	*Main functions Reading selection: Ra, Rz, Rq, Rt; measuring length adjustment; calibration function; automatic charge status control with acoustic signal; battery charging function, tester can be used while the battery is charging.*
Enviromental conditions:	*Operating* *– 0°C– 40°C ambient temperature* *– < 80% relative humidity* *– Avoid vibrations; do not measure corroded surfaces*

FEATURES

- Surface roughness tester offering excellent value for money
- Piezoelectric probing system
- OLED liquid crystal, illuminated display with adjustable contrasts
- Dynamically shows measuring progress on the display
- Rechargeable, long-life, fast-charging lithium-ion batteries
- Acoustic and visual warning signals when lithium-ion batteries are low
- Integrated sliding cover to protect the probe stylus
- Turns itself off automatically after 2 minutes
- Acoustic „Start Test Ready“ signal
- Ra, Rz, Rq and Rt roughness parameters in a single device
- Easy calibration using the keyboard
- USB port for connecting the charger cable
- Full LCD dot matrix and interface notifi cations DSP chip for data processing and calculation (enables fast data processing)

MEASURING PRINCIPLE

During the measuring process, the sensor makes inline movements along the probing path. The stylus moves up and down in accordance with the probing path profile. These movements are translated into electric signals, which are amplified, filtered and converted into digital signals using an A/D converter. The CPU then processes these signals as Ra and Rz results (or Rq and Rt results) and shows them on the display.

APPLICATION

- Measures roughness of hard surfaces
- For example at: Labs, measuring rooms, workshops, engineering facilities, and many more

STANDARD DELIVERY

- Roughness tester RUG-320
- Roughness test block
- Battery charger
- Suitcase
- Operation manual

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SURFACE ROUGHNESS TESTER RUG-300 RUG-310

APPLICATION

Widely used in production site to measure surface roughness of various machinery-processed parts, calculate corresponding and clearly display all measurement parameter.
Meets the standard of ISO4287,DIN4768,JIS B,ANSI46.1



RS@MC@QC CDKHUDQX Noshmm`k@bbdrrnqhdr

Carry case	1,Cable and Software for RS-232/USB
Main Unit	2,Extension Rod
Standard Sensor	3,SRP-110 Groove stylus
Standard Sample Plate	4,SRP-120 Curvature Probe
Power Adapter	5,SRS-1 Measurement Stand
Operation Manual	
Screwdriver	
Adjustable Leg	
Sensor Protector	

Model No.		RUG-310	RUG-300
Range	Ra	0.005-16um/0.020-629.9uinch	0.050-10um/1.000-400.0uinch
	Rq	0.005-16um/0.020-629.9uinch	———
	Rz	0.020-160um/0.780-6299uinch	0.020-100um/0.780-4000uinch
	Rt	0.020-160um/0.780-6299uinch	———
Accuracy		<=±10%	
Resolution		0.001um(Reading<10um)	
		0.01um(10um<=reading<100um)	
		0.1um(reading>=100um)	
Display		LCD	
Fluctuation of display value		<=6%	
Profile digital filter	Filtered profile	RC,PC-RC,GAUSS	———
	Non-filtered profile	D-P	———
Driving speed	Measuring	Vt=0.135mm/s(Sampling Length=0.25mm)	
		Vt=0.5mm/s(Sampling Length=0.8mm)	
		Vt=1mm/s(Sampling Length=2.5mm)	
	Returning	Vt=1mm/s	
Pickup measurement range		±80um	
Evaluation length		1-5L(Selectable)	
Metric/Imperial		Conversion	
Memory		7Groups	---
Built in Li-ion battery		Rechargeable	
Dimension		140x52x48mm(5.5x2.2x1.9inch)	
Net Weight		420g	

Specification for the Sensor

Model No.		RUG-310	RUG-300
Sensor	Radius	5um	10um
	Material	Diamond	Diamond
	Measuring force	4mN(0.4gf)	16mN(1.6gf)
	Probe angle	90°	90°
	Vertical radius of guiding head	48mm	48mm
	Maximum driving stroke	17.5mm/0.7inch	17.5mm/0.7inch
	Cutoff length	0.25mm 0.8mm 2.5mm	

TECHNICAL SPECIFICATION OF OPTIONAL PROBE



PS230 standard pickup



PS230V pickup (7mm changeable diameter）



PS230U pickup (7mm)



PS231 pickup for tooth surface (120° probe)



PS232 pickup for small hole (ø1.33)



PS233 pickup for deep groove (10mm)

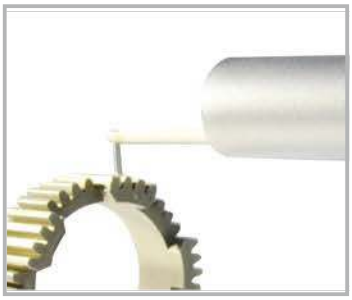


PS236 pickup for extra deep groove (20mm)



PS238 pickup for super deep groove (30mm)









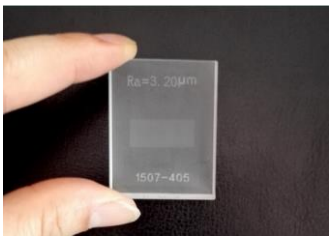
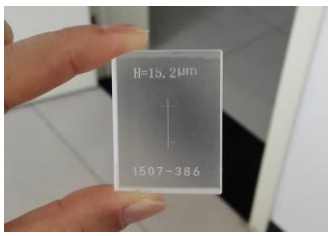








TECHNICAL SPECIFICATION OF OPTIONAL ACCESSORY

	**RUG-001 Metal Substrate Working platform**, adjustable height 200mm. With flexible and stable operation and wider application range. Roughness of complex shapes can also be measured. Measurement stand enable the adjustment of the position of stylus to be more precise and measurement to be more stable. If Ra value of measured surface is relatively low, Using measurement platform is recommended.
	**RUG-002 Marble Substrate Working Platform**, adjustable height 300mm. With flexible and stable operation and wider application range. Roughness of complex shapes can also be measured. Measurement stand enable the adjustment of the position of stylus to be more precise and measurement to be more stable. If Ra value of measured surface is relatively low, Using measurement platform is recommended.
	**RUG-003** **Standard Roughness Calibration Block Multi-engraved lines (Square Wave/Analog sine wave)** Made by optical glass, with high hardness, high accuracy standard roughness value, anti-scratch,Anti-deformation, has longer life than metal roughness block. Meet standard ISO5436-1:2000 Approximation: Ra=0.1um, 0.2um, 0.4um, 0.8um, 1.6um, 3.2um, 6.4um Size:40*30*8mm Customizable Various values Square Wave/Analog sine wave. welcome to inquire.
	**RUG-004** **Standard Roughness Calibration Block Single engraved lines** Made by optical glass, with high hardness, high accuracy standard roughness value, anti-scratch, has longer life than metal roughness block. Meet standard ISO5436-1:2000 Approximation: H10-20μm（roughness tester use filter D-P, test RT value） Customized Value available, welcome to inquire.
	**RUG-100** **Roughness Comparator (30 pcs/set)** This set contains standards of the six most important machining methods in the prevalent "AA" values. These surface roughness is used to compare and determine the degree of the surface finish by comparision method and eye estimation or magnifying glass.The surface rough contast blocks is made of 45 super carbor steel except the GCr15 which is using to plat lapping the sample block. All 30 speciments are calibrated in u"AA (Arithmetical Average) and in the metric equivalents um Ra.
	**RUG-005** **Mini thermal printer** External printer, connect by USB interface, suitable for Kairda models.

ULTRASONIC FLAW DETECTOR UFD300

URD300 provides the most functionalities that an NDT professional needs. It has "time-proven" stable quality. Full color LED display makes it easy to read even under the direct sun shine. Battery lasts for 10 hours which totally supports the "whole day work with one night charge" remote ourdoor site NDT working style. We spend years to make it stable and tough.



MAIN FEATURES:

- **Automated calibration、Automated gain**
- **DAC、AVG、TCG、B scan、AWS**
- **High-speed capture and very low noise**
- **Solid metal housing**
- **High contrast viewing of the waveform from bright**
- **Powerful pc software and reports can be export to excel**

•Automated display precise flaw location(Depth d、level p、distance s、amplitude、sz dB、ϕ)
•Automated switch three staff gauge ((Depth d、level p、distances
•Automated calibration of transducer Zero-point, Angles, Front edge and material Velocity ;
•Convenient to make and use DAC₩TCG and AVG to evaluate the echo, the curve can be modified and compensated
•6dB DAC functions;
•500 independence setup, any criterion can be input freely, we can work in the scene without test block ;
•Big memory of 1000 A graph
•Automated gain and gain scan;
•Peak Hold and Peak Memory ;
•B scan;
•AWS D1.1
•Automated make video of test process and play;
•Powerful pc software and reports can be export to excel;
•Li battery, continue working time up to 10 hours;
•The embeded software can be online updated ;

OTHER ASSISTANT FUNCTION:

- Display freeze
- Automated echo degree
- Angles and K-value
- Lock and unlock function of system parameters
- Electronic clock calendar
- Two gates setting and alarm indication
- Gate and DAC alarm

Table 1.1 List of standard configurations

Designation	Quantity
Main unit	1
2.5A/9V power adaptor (110v-240v)	1
probe connecting cable	1 BNC-LEMO00
Carrying case	1
Instruction manual	1
Straight transducer	10mm 4MHz (One)
Angle transducer	8×9 60°4MHz (One)
Rechargeable battery	1

Table 1.2 List of options (optional items will come free with standard configuration package)

Designation	Quantity
Serial cable	USB
Communication software for PC	1 set

Language optional: English, German, Italian, Korean, etc.

SPECIFICATIONS:

Title	Parameter	Title	Parameter
Measuring Range (mm)	0 ~ 10000	Measurement Mode	Single、Dual、Thru
Vertical Linearity Error	≤3%	Reject	0~80%
Horizontal Linearity Error	≤0.1%	Pulse Displacement (μs)	-20 ~ +3400
Sensitivity Leavings	≥62dB	Zero (μs)	0.0 ~ 99.99
Dynamic range	≥34dB	Port Type	LEMO 1
Resolving Power	≥36dB	Operating Temperature (℃)	-20 ~ 50
Frequency Range (MHz)	0.5 ~ 20	H×W×D(mm)	240×150×50
Gain (dB)	0 ~ 130	Weight (kg)	1.6 (with battery)
Material Velocity (m/s)	1000 ~ 15000		

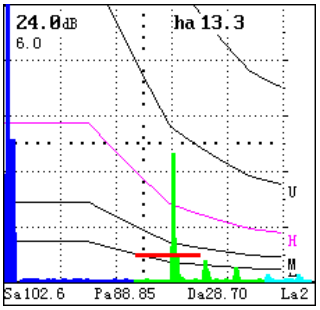
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ULTRASONIC FLAW DETECTOR UFD550

Weld inspection in the power gener- Ation and petrochemical industries
Flaw location with display of all coordinates,sound path,(reduced) surface distance,depth position and leg number

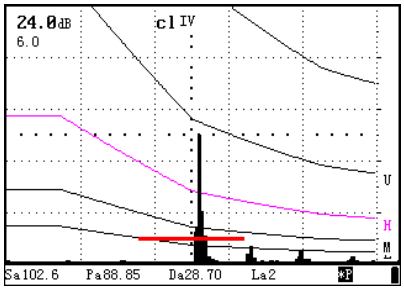


Sa 102.6 Pa88.85 Da28.70 La2

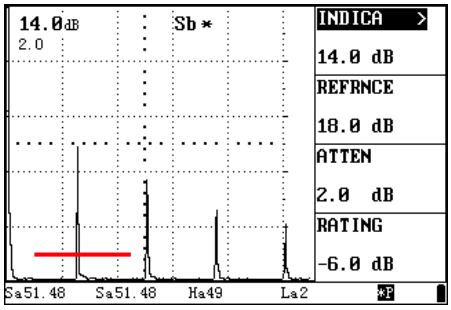


Display of every sound beam reflection (number of half skip distances or legs) and identification of leg color on the "live" A-scan

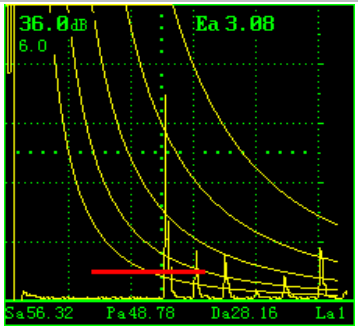
New powerful DAC/TCG with JIS DAC Module according to JIS Z 3060-2002



Amplitude evaluation in dB refering to a previously recorded reference dcho or according to AWS D1.1



Precise thickness measurement for the automobile industry
You can measure the sound path difference precisely at the peaks of an echo sequence with a resolution of 0.01mm/ DGS evaluation with direct digital ERS readout



Inspection of forgings in the power generation and aerospace sectors;
The automatic setting of the pulse repetition frequency from 20Hz to 1kHz h
Eliminates phantom echoes while inspecting fine grain and large work pieces.
Defects from an equivalent reflector size 0.3mm onwards will be detected

Inspection of special materials in the aerospace and automobile industry

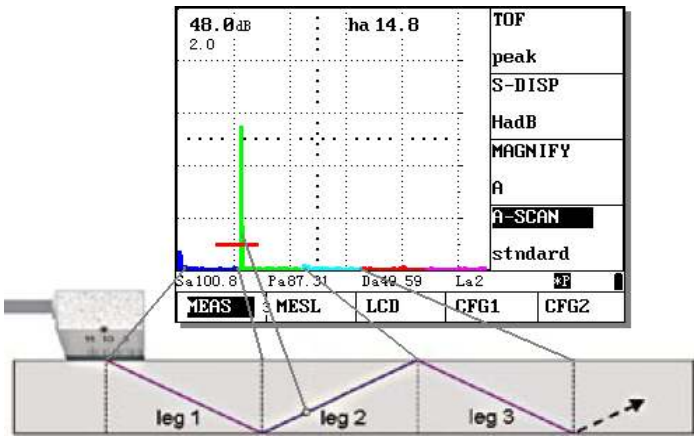
Corrosion wall thickness in the power generationand petroch emical sectors
During wall thickness measurement on corroded parts using dual element probes,you simultaneously check the reading together with the A-scan,thus rece-iving the maximum reliability for the measurement.On hot surfaces you use the auto-freeze function,minimi-zing the probe`s contact time.The minimum capture mode gives you the thinnest measured reading at the end of a continuous scan

Harsh field and industrial environments

- Extended temperature range from 0℃ to 60℃
- Weight only 2.0 kg
- Extended bettery life to 8 hours under real test conditions

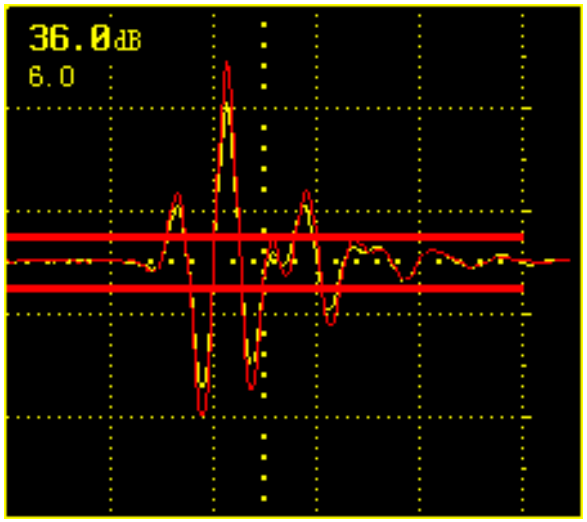
Fast and bright color screen
Color brings you many additional benefits in your daily inspection job:

- Color display of monitor gates and curves (DAC,TCG,DGS) for direct recognition
- Color coded display of angle beam inspection of welds



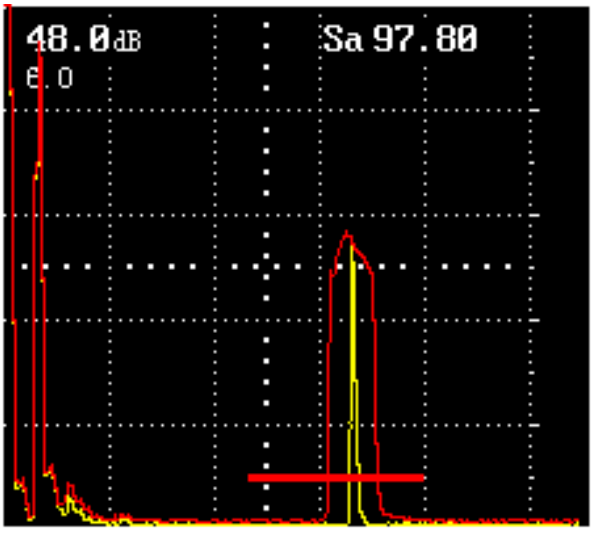
Color-coded display of legs in tests using angle-beam probes

- Use of color to display references (A-scan) toMake comparisions easy
- Multicolor screen combinations for operator per-ferences and to select best suitable color scheme according to the working environment



A-scan companision

- Colorized envelope curve display for echodynamic analysis



Envelope curve

Square Wave Pulser (option)

Selectable and tunable for optimum probe matching to satisfy a wide range of tough-to-penetrate applications.

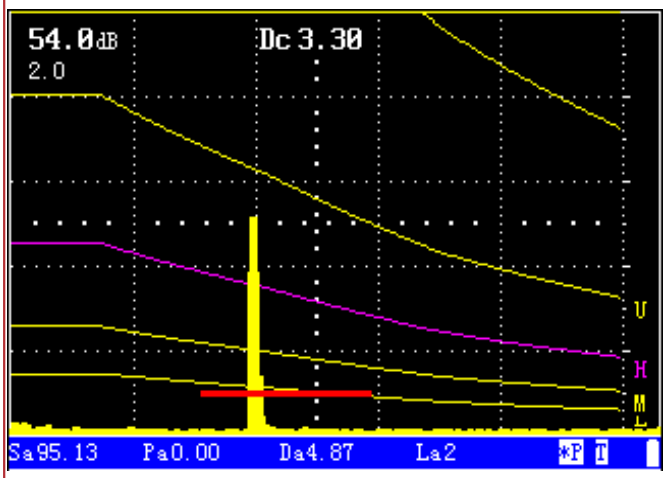
For low frequencies,square wave pulsers allow optimum probe matching by adjusting pulse width and voltage. Difficult to penetrate metallic applications and especially non-metals inspection like composite materials are optimized.

- Pulse width is tunable up to 1000ns in 10ns steps for optimum probe matching and versatility in meeting a wide range of appli-cations.

- Pulser voltage is adjustable from 25 to 500V in 10V steps.

DAC Functions

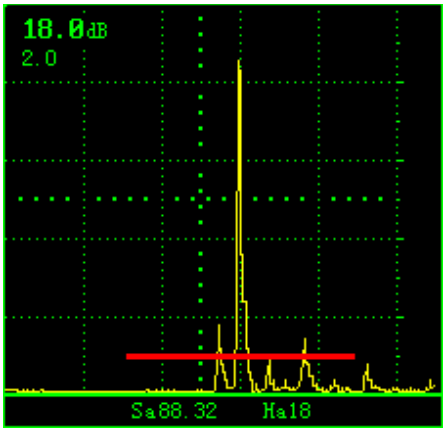
Recording reference echoes in DAC mode will be simplified by automatic gain adjustment.The echo to be recorded will be set automatically at 80% and stored the dB-difference to the first reference echo can be displayed,if needed.The new JIS-DAC meets the latest JIS Z3060-2002 specifications.



New DAC function according to zhe latest JIS Z3060-2002

Three different time of flight measured ments

Depending an the time of flight mode selected,the distances and amplitudes will be measured and displayde for the echo in each gate.



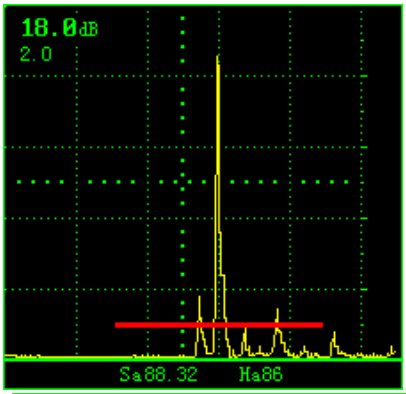
Peak:sound path and anplitude at the highest echo in the gate

Curved surface correction

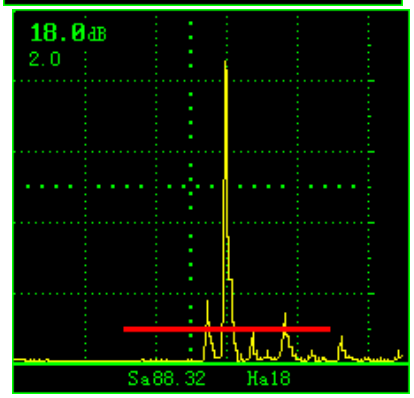
Corrects sound path information when using an angle beam transducer to circumferentially inspect a curved surface for either tubular or bar inspections.

Data reporting

200 datasets enable a great number of calibration settings and test results to be stored. Also extended up to 1200 documents with a memo field containing 9 added information for memory and analysis . The report or setting can be uploaded to a computer using an RS-232 or USB (with USB-RS accessory) for saving, reviewing or printing.



Flank:sound path at the intersection of the first echo with the gate threshold;amplitude at the highest echo in the gate.



Curved surface correctio

Corrects sound path information when using an angle beam transducer to circumferentially inspect a curved surface for either tubular or bar inspections.

Data reporting

900 datasets enable a great number of calibration settings and test results to be stored. Also Extended up to 1900 datasets. Each report can be documented with a memo field containing 9 added information for memory and analysis . The report or setting can be uploaded to a computer using an RS-232 or USB (with USB-RS accessory) for saving, reviewing or printing.

Measure readings

Up to 20 measure readings are selected to be displayed on the screen,measure can be carried out instantaneous or behind freeze.

Other benefits

We have also implemented innovations from the computer industry in the battery concept to make your daily work easier: the rechargeable lithium-ion battery pack enables you to carry out your inspections for at least 8 hours.Charging is easily carried our internally within the instrument just by connecting the power adapter to the detector.

Language optional: English,Portuguese, German, Italian, Korean, French etc.

V1 ULTRASONIC CALIBRATION BLOCK

Model No.
UB-3

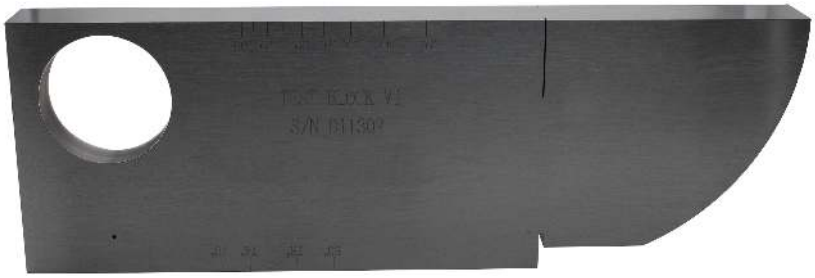
APPLICATION

V1 Calibration Block UB-3 is designed for verification of the ultrasonic flaw detectors used in the course of welded joints quality control by the UT method. It is DSTU 4002-2000 (ISO 2400, DIN 54120, B.S. 2704) compliant. V1 Calibration Block allows:

- to determine the UT beam index and X-value with an error of ±0.5 mm
- to determine the probe angle of the ultrasonic wave with an error of ±1 ang. degr.
- to determine uncontrolled ("dead zone") of the ultrasonic straight beam piezoelectric probes in steel
- to determine resolution (in steel) of the ultrasonic straight beam piezoelectric probes
- to determine the scan horizontal linearity of the ultrasonic flaw detectors
- to adjust the scan speed and sensitivity of the straight beam, double crystal, angle beam piezoelectric transducers

TECHNICAL SPECIFICATION

- The Block is made from the low-carbon fine grain steel with small attenuation coefficient
- Ultrasonic longitudinal waves velocity in the Block material at a frequency of 5.0 MHz and a temperature of (20 ±5)ºC is (5920±30) m/s
- Ultrasonic longitudinal waves in the pad (polymethyl acrylate) of the Block material is at a frequency of 5.0 MHz and a temperature of (20±5)ºC is (2670±100) m/s
- Geometrical dimensions of the Block correspond to DSTU 4002-2000 (ISO 2400, DIN 54120, B. S. 2704)
- The Block weight is up to 4.8 kg (approx.8.8 lbs).



V1 ULTRASONIC CALIBRATION BLOCK

Model No.
UB-4

APPLICATION

V2 Calibration Block is designed for verification of the ultrasonic flaw detectors used in the course of welded joints quality control by the UT method. It is DSTU 4002-2000 (ISO 7963, B.S.2704) compliant. V2 Calibration Block allows:

- to calibrate the sweep of the flaw detector by the ultrasonic wave velocity for the straight beam piezoelectric transducers
- to calibrate the sweep of the flaw detector by the ultrasonic wave velocity for the angle beam piezoelectric transducers
- to set a conditional level of sensitivity of the UT flaw detectors with the straight and angle beam transducers
- to determine the probe index and X-value of the angle beam transducers
- to determine the UT wave entry angle in steel.

TECHNICAL SPECIFICATION

- Velocity of the ultrasonic longitudinal waves in the Block material at a frequency of 5.0 MHz and a temperature of (20±5)ºC is (5920±30) m/s
- Velocity of the ultrasonic shear waves in the Block material at a frequency of 5.0 MHz and a temperature of (20±5)ºC is (3255±15) m/s
- Geometrical dimensions of the Block correspond to DSTU 4002-2000 (ISO 7963, B. S. 2704).



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CURRENT FLOW TEST PIECES

Model No: MT-106



FEATURES:
- 0-1000A: BS6072, RPS700 1000-3000A: RPS700 3000-5000A: RPS700

KETOS TEST RING

Model No: MT-107



FEATURES:
- Ketos Test Ring is a mag particle test Piece with pre-drilled holes to simulate subsurface discontinuities. It offers a reliable method of verifying magnetic particle system performance when actual test parts with discontinuities are not available.
- Meets ASTM E709-08, ASTM E1444, BPVC.

PIE GAUGE (3pcs)

Model No: MT-109



FEATURES:
- Field strength and direction, ragged and reliable, industry standard
- Used to establish adequacy of Field per requirements of MIL-STD 271D, MIL-S-23284, ASTM NAVYSHIPS 250-1500 and B & W S-102T Specifications

PIE GAUGE(1pc)

Model No: MT-108



FEATURES:
- Field strength and direction, ragged and reliable, industry standard.
- Used to establish adequacy of Field per requirements of MIL-STD 271D, MIL-S-23284, ASTM NAVYSHIPS 250-1500 and B & W S-102T Specifications.

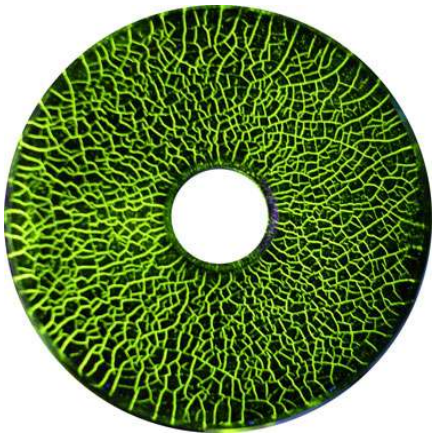
FIELD INDICATOR

Model No: MT-110



FEATURES:
- Scaled to +/- 20 gauss from zero for determining the level of residual magnetism to 5% of full-scale reading.
- **scaled to +/- 10 gauss MT-110-1**
- **scaled to +/- 20 gauss MT-110-2**
- **scaled to +/- 50 gauss MT-110-3**

TEST BLOCK MTU-3



Model No: MTU-3

FEATURES:

- The MTU-3 Test Block is used to check the sensitivity of magnetic particle materials.
- This two sided block has a variety of indications ranging in size from small to large.
- Use the MTU-3 to compare:
  fresh and used materials
  different brands of materials
  different types of materials (visible, dual sensitivity andfluorescent, etc.)
- Use the MTU-3 to verify:
  That aerosol cans are actually delivering particles
  MTU-3 Blocks are prepared in accordance with the EN ISO 9934 – 2 : 2002.
  Natural cracks on both sides
  Can be used with fluorescent or visible particles

CENTRIFUGE TUBE & STAND



Model No: MT-111

FEATURES:

- Essential items in ascertaining bath concentration. Centrifuge Tube meets the requirements of ASTM D96 and BS4069

AC/DC MAGNETIC YOKE FLAW DETECTOR MT-12/220

MT-12/220 AC/DC Magnetic Yoke Flaw Detector is a portable instrument used to inspect the surface for flaws on irregular shapes such as chains, crank shafts, springs, forged pieces and valves. It can be used in many industries and applications including offshore, ship building, combustion motor parts, mining, machinery, oil pumps, aerospace parts, automotive, bridge building, chemical industry, pressure container and rail industry and so on.
MT-12/220 AC/DC can be used with AC or DC power supply. DC type uses a rechargeable battery and is suitable for applications where no power supply is available. The AC type uses a 220V power supply.



MODEL NO.: MT-12/220

TECHNICAL SPECIFICATION

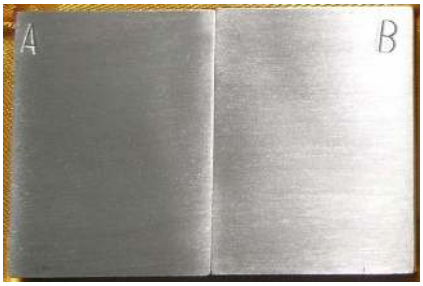
- Power: 220V 50Hz AC or 12V DC
- Recharging Power: 220V 50Hz
- Battery: MF12 – 7.2AH
- Working Current: AC = 1.4A / DC = 1.7A
- Recharging Time: 8 to 15 Hours
- Battery Working Time: Up to 6 Hours
- Working Interval: 60 seconds ON, 60 seconds OFF
- Polar Distance: 50 to 200 mm
- Lifting: AC >5.5kg / DC >22kg
- Weight:
  Probe: 3.1kg
  Battery Bag: 2.9kg
- Dimension:
  Probe: 208 × 52 × 146 mm
  Battery: 160 × 70 × 100 mm
  Charger: 75 × 50 × 40 mm

STANDARD DELIVERY

- AC or DC Magnetic Yoke Flaw Detector
- Battery Bag
- Battery
- AC Power Cable
- DC Power Cable
- Fuse (5A) x 2
- Manual
- Product Certificate
- Carrying Case

ALUMINUM TEST BLOCK

Model No: PT-100



FEATURES:
- Convenient method for comparing sensitivity of penetrant materials.
- Compare used with fresh materials or incoming materials with those in stock to assure uniformity.
- Complies with ASME Boiler and Pressure Vessel Code, Section, Article6, Section T-662.

TAM PANELS(5 small holes)

Model No: PT-101



FEATURES:
- Combination test panel monitors both adequacy and sensitvity of the entire penetrant process.
- Each 4"×6" stainless steel panel includes a rough surface for checking throughness of wash technique, plus a polished chrome section with 5 "star" shaped defects ranging from coarse to extremely fine
- Level of defect found indicates both penetrant sensitivity and proper process control.

TAM PANELS(3 small holes)

Model No: PT-102



FEATURES:
- Combination test panel monitors both adequacy and sensitvity of the entire penetrant process
- Each 4"×6" stainless steel panel includes a rough surface for checking throughness of wash technique, plus a polished chrome section with 5 "star" shaped defects ranging from coarse to extremely fine
- Level of defect found indicates both penetrnat sensitivity and proper process control

STAINLESS STEEL TEST BLOCK for washability

Model No: PT-103



FEATURES:
- Monitors washability of water-wash orpost-emulsified penetrants
- Grit-blasted rough surface retains "background"when washability is impaired
- May be used repeatedly if thoroughly cleaned aftereach use
- Complies with ASTM E165

TAM PANELS(6 small holes)

Model No: PT-106



FEATURES:
- Stainless steel,surface coated nickel,shaped 6 defects,high sensitivity

DIGITAL CONCRETE TEST HAMMER CTH-150

Standard: ASTM C805, BS 1881-202, DIN 1048, UNI 9198, EN12504-2

Concrete Strength Evaluation

This digital concrete test hammer,microprocessor operated, entirely designed with advanced technology, performs basic concrete testing with continous automatic recording of all parameters, register and process data and then transfer them to a PC. Equipped with an electronic tranducer that measures the rebound values and supplies automatically the results on a graphic display.



Main Features

- Higher accuracy and stability of the readings
- Intensity of result viewing with wide LCD Display
- Use exclusively only on the surfaces to be tested & on the testing anvil
- The test result is automatic recorded, calculation & storage.
- Works efficiency of rebound detection and reduce
- Data transfer to PC or mini printer (optional)

TECHNICAL SPECIFICATION

Model Number	CTH-150
Impact Energy	2.207 Nm
Display Graphic	High-contrast Graphic Display 256x64 (pixel) - LED Blue Display
Spring Tension	785±30 N/m
Stretch Tension Spring	75±0.3 mm
Battery Lifetime Power	3.7 V (lithium battery 1600 mAh)
Test Result Storage	240 Group
Reading Unit	MPa, Psi & kgf/cm²
Casing Dimension (mm)	320 (L) x 190 (W) x 90 (H) mm
Approx. Weight	2 kg



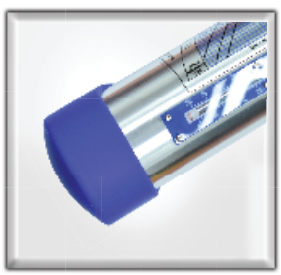


Digital Display

Unit Consists Of :

Model Number	Parts Description	Qty
CTH-150	Digital Concrete Test Hammer	1no.
CTH-P001	Grinding Stone	1no.
CTH-P002	Plunger Spring & Reading Indicator	1set.
CTH-P003	Tools Kit Set	1set.
CTH-P004	Charger & Com. Cable	1 set.
CTH-P005	Smartz Carry Case	1no.

*1 Copy of Manual Instruction



Soft Silicone End Cap for comfort operation.



CTH-P007

Optional Accessories :

Model Number	Accessories Description
CTH-P006	Bluetooth Mini Printer
CTH-P007	Printer Paper (56 mm Width)





CT-120C

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CONCRETE TEST HAMMER (HIGH STRENGTH)

Standard: ASTM C805, BS 1881-202, DIN 1048, UNI 9198, pr EN12504-2

Concrete Strength Evaluation

Used to determine the compressive strength of concrete. Fully aluminium casing, high quality internal mechanism, extra durability up to 300,000 test cycle and with additional soft silicone cap for comfortable usage.



CT-120
CT-130



CT-120C





CT-120B

TECHNICAL SPECIFICATION

Model No.	CT-120	CT-130
Impact energy	2.207 Nm	0.735 Nm
Hammer mass	135 g	135 g
Spring constant	0.79 N/mm	0.26 N/mm
Spring extension	75 mm (2.95")	75 mm (2.95")

Unit Consists Of :

Model No	Parts Description	Qty
CT-120/CT-130	Concrete Hammer	1no.
CT-P002	Grinding Stone	1no.

*1 Copy of Manual Instruction

CALIBRATION ANVILS

Model No.	Description
CT-120C	Concrete Hammer Anvil
CT-120B	Concrete Hammer Anvil

INDUSTRIAL ENDOSCOPE ED300



APPLICATION

ED300 Industrial Endoscope is equipped with 5 inch screen,integrated appearance design,one handed operation can also be achieved,mega pixels,combined with the front ultra bright LED lamp beads,can clearly see the internal dark areas,waterproof,oil resistant,wear resistant,can be suitable for various component inspections,pipeline inspections,mechanical inspections,industrial equipment inspection etc.











LED integrated lighting, sufficient light source



Multiple pipelines are available



5 inch large screen, more convenient to watch



Quick pipeline replacement



Combined battery, easy to disassemble



WIFI Wireless Transmission (optional)

TECHNICAL SPECIFICATION

MODEL NO.		ED300	ED310	ED320	ED330	ED340	ED350	ED360
Lens	Direction	Front view						
	FOV(θ)	120°						
	(DOF)	10mm~120mm						
	Pixels	1000,000pixels						
	Illumination	LED Integrated lighting						
Probe	Lenght(L)	12.5±0.5mm						
	Diameter(D)	6mm						
	Articulation	360°Omnidirectional head						
	Bend angle(α)	160°±10°			150°±10°	130°±10°	120°±10°	110°±10°
	IP grade	IP67						
	Working temperature	-20°C~70°C						
Insert tube	Length	1m	2m	3m	4m	5m	6m	7m
	Materials	Flexible (tungsten braided tube)						

Host	Dimension	350*155*59mm
	Display	5 inch industrial touch LCD screen
	Output port	HDMI video output，Micro USB、TF card slot
	Storage	32G
	Power	Special rechargeable lithium battery pack, online charging, battery life ≧4 hours
	IP grade	IP54
	Working temperature	-10℃～50℃
	Storage temperature	−20℃～60℃
	Relative humidity	Max 95%，No condensation
System	Operation System	Multifunctional operating system
	Operation method	Button navigation, dual camera and video buttons
	Support Function	With freeze, zoom, photo, flip, video playback, analog ruler functions
	File Format	Image:JPEG（JPG），Video:AVI
	Support Language	French, English, German, Spanish, Italian, Japanese
Packing Case	Weight	3.9kg
	L*W*H	47.9*38.7*15.5cm

INDUSTRIAL ENDOSCOPE ED400

APPLICATION

ED400 Industrial Endoscope equipped with 5-inch high-definition liquid crystal display, 360-degree omnidirectional guidance function, 720p million high-definition camera, can intuitively judge whether the observation part is qualified, support photo and video archiving, clear picture and video, this series of industrial video endoscope can be applied to precision casting, pharmaceutical manufacturing, automobile manufacturing and other application scenarios.



- **Support temperature warning**
  Display of temperature measurement system (optional)
- **Fiber optic lighting has bright color**
  High brightness and good color rendering
- **0.95mm~8mm**
  Multiple probes can be directly selected
- **WiFi Wireless Transmission**
  (Optional)
- **Mega pixel HD camera**
- **360。 all way Articulation**





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Optical fiber illumination for clearer images



Quick to change probes



5 inch screen, more convenient to watch



VIFI wireless ransmission (fc ptional)





More probes for optional

ure warning nal)

TECHNICAL SPECIFICATION

MODEL NO.		ED400	ED410	ED420	ED430	ED440	ED450
Lens	Direction	Direct view/Side view/Double view					
	View angle(θ)	120°					
	DOF	3mm~30mm，8mm~150mm，10mm~200mm，50mm~infinity					
	Pixel	1MP					
	Illuminating system	Rear high-power LED fiber optic transmission					
Probe	Length(L)	13±0.5mm					
	Diameter(D)	6mm					
	Articulating	360°full direction articulation					
	Bending Angle(α)	170°±10°		160°±10°	150°±10°	130°±10°	120°±10°
	IP grade	IP67					
	Working temperature	-20°C~70°C					
Insert tube	Length	1m	2m	3m	4m	5m	6m
	Material	Flexible (tungsten braided tube)					

Host	Dimension	350*155*59mm
	Display	5 inch industrial touch LCD screen
	Output port	HDMI video output，Micro USB、TF card slot
	Storage	32G
	Power	Special rechargeable lithium battery pack, online charging, battery life ≧4 hours
	IP grade	IP54
	Working temperature	-10°C～50°C
	Storage temperature	−20°C～60°C
	Relative humidity	Max 95%，No condensation
System	Operation System	Multifunctional operating system
	Operation method	Button navigation, dual camera and video buttons
	Support Function	With freeze, zoom, photo, flip, video playback, analog ruler functions
	File Format	Image:JPEG（JPG），Video:AVI
	Support Language	French, English, German, Spanish, Italian, Japanese
Packing Case	Weight	3.9kg
	L*W*H	47.9*38.7*15.5cm

INDUSTRIAL ENDOSCOPE ED150



APPLICATION

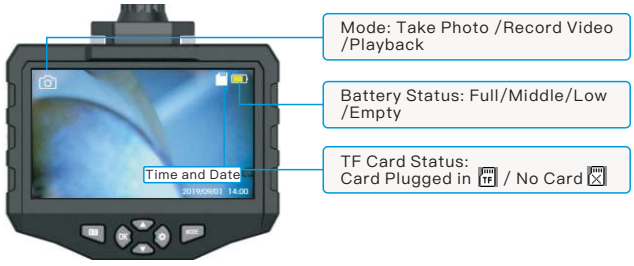
- Automotive / Diesel Repair and Maintenance.
- Inspection of hard-to-reach or hard-to-see area or equipment.
- Plumbing, construction, restoration applications.
- Science Education.
- Outdoor Exploration.

FEATURES

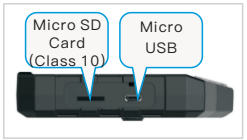
- View live inspection video instantly on the 4.5′ IPS HD display.
- 720P high definition for image capture and video recording.
- 180° image flip monitor.
- High sensitivity for low-light HD camera chip in the tip.
- Cree LED flash assisting dark area work.
- Adjustable handle.

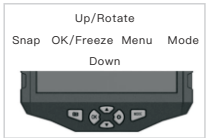
TECHNICAL SPECIFICATION

Monitor:



- Screen: 5 inch IPS HD Display
- Screen Resolution: 854x480 pixels (FWVGA)
- Image Capturing Resolution: 1920x1080 (JPG)
- Video Recording Resolution: 1920x1080, 1280x720 (MOV)
- Port: Micro USB charging port / Micro SD card slot
- Storage: 32GB Micro SD card
- Flash Light: 1 Watt Cree LED
- Power Source: 5000mAh lithium battery
- Battery Life: 5-6 hours
- Operating Temperature: 32° to 113°F (0° to 45°C)







Camera:

- Type: Single Lens, Straight-viewing
- **Diameter: 5.5mm(optional 3.9mm / 7.6mm / 8mm / 14.5mm)**
  Probe Length: 1 Meter(optional 3 Meters / 5 Meters)
- Probe Stiffness: Soft / Medium / Stiff
- Megapixel: 1.0 megapixel
- Resolution: 1280x720 pixels
- Viewing Angle: 70º
- Depth of Field: 1.18-inch to 3.94-inch (30mm to 100mm)
- LED Light: 6 Adjustable High-intensity LEDs
- Splash, Water, and Dust Resistant: Rated IP67 (maximum depth of 1 meter up to 30 minutes) under IEC standard 60529

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VIBRATION TESTER VM-6370



FEATURES

- Can display the parameters of Displacement, Velocity and Acceleration simultaneously.
- In accordance with ISO 2954, used for periodic measurements, to detect out-of-balance, misalignment and other mechanical faults in rotating machines.
- Specially designed for easy on site vibration measurement of all rotating machinery for quality control,commissioning, and predictive maintenance purposes.
- Individual high quality ccelerometer for accurate and repeatable measurements.
- Wide frequency range (10Hz~10kHz) in acceleration mode.
- Optional headphones for use as electronic stethoscope.
- Bearing condition monitoring function.
- Use USB/RS-232 data output to connect with PC.
- Provide Bluetooth data output choice.

TECHNICAL SPECIFICATION

ISO/IS2373 Motor Quality Standard According As Vibration Velocity

Quality Rank	Rev(rpm)	H:high of shaft(mm) Maximum vibration velocity rms(mm/s)		
		80<H<132	132<H<225	225<H<400
Normal	600~3600	1.8	2.8	4.5
Good(R)	600~1800	0.71	1.12	1.8
	1800~3600	1.12	1.8	2.8
Excellent(S)	600~1800	0.45	0.71	1.12
	1800~3600	0.71	1.12	1.8

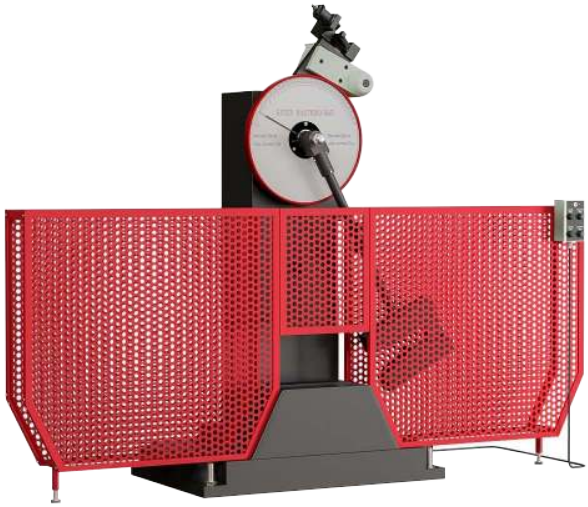
TECHNICAL SPECIFICATION

Sensor	Piezoelectric Transducer	
Measuring Range	Acceleration	0.1m/s²~400m/s² 0.3ft/s²~1312ft/s² 0.0g~40g Equivalent Peak
	Velocity	0.01mm/s~400mm/s 0.004inch/s~16.0inch/sTrue RMS
	Displacement	0.001mm~4.0 mm 0.04mil~160.0 mil Equivalent Peak-peak
Frequency Range	Acceleration	10Hz~10kHz
	Velocity	10Hz~1kHz
	Displacement	10Hz~1kHz
Accuracy	5% of Reading+2 digits	
Operating Conditions	Temperature	0°C~50°C
	Humidity	<90%RH
Power Supply	2x1.5V AA(UM-3)Battery	
Dimensions	130mmx76mmx32mm	
Weight	340g(Not Including Batteries)	

PRIDE®

UNIVERSAL TESTING MACHINE
DIGITAL SPRING TESTER
TABER ABRASION TESTER
DIN ABRASION TESTER
METAL IMPACT TESTER
MELT FLOW INDEXER
HDT AND VICAT TESTER
PLASTIC CHARPY IZOD IMPACT TESTER
IMPACT TESTING MACHINE LOW-TEMPRATURE METER
BROACHING MACHINE
IMPACT SPECIMEN NOTCH PROJECTOR
IMPACT SPECIMEN V-NOTCHER
SALT SPRAY CHAMBER
HIGH&LOW TEMPERATURE CHAMBER
MOONEY VISCOMETER
MOVING DIE RHEOMETER





COMPUTERIZED TENSILE TESTING MACHINE UTS-S20

This tensile testing machine is small and precise servo motor and ball screw driving parts.The machine is suitable to test the plastic,the rubber,the textile,the leather,the electronics,the automobile,the wire,the spring,the paper etc,also widely used in the Colleges,Universities,Institutes,High-tech companies
Standard:ISO 1421,DIN 53357,ASTM D3574,ASTM D6644,BS 903,BS 5131,GOST 18299



SPECIFICATION

Model No.	UTS- S20A	UTS- S20B	UTS- S20C	UTS- S20D
Dimension（W×D×H）	500×470×1030 mm (W×D×H)	500×470×1280mm (W×D×H)	500×470×1480mm (W×D×H)	500×470×1900mm (W×D×H)
Test Stroke	450mm	700mm	850mm	1300mm
Capacity	10N、20N、50N、100N、200N、500N、1KN、2KN、5KN (Optional any capacity,Optional dual capacity, with rapid replacement requirements)			
Force revolution	1/500,000			
Strength Precision	0.5%			
Acquisition rate	1/500,000			
Control mode	Touch Screen Control or Computer operation, Multi-software			
Test Space	Ø150mm			
Speed Range	0.01~500mm/min（can customerized）			
Force unit conversion	kgf，gf ，N，kN，lbf			
Machine Drive	servo motor,ball screw			
Weight	About 55kg			
Power Supply	1PH，AC220V，50/60Hz，10A			
Standard Delivery	1 set fixture, computer software, USB computer connection wire			

ELECTROMECHANICAL UNIVERSAL TESTING MACHINE 5KN



Small components, reinforced plastics, metals, wire, composites, elastomers, wood products, textiles, biomaterials, paper products, adhesives, foam, consumer products
Standards:
ISO6892, ISO527, ISO604, ISO178, ISO1184, ISO37, ASTM E8, ASTM E9, ASTM D638, ASTM D695, ASTM D790, ASTM D395, ASTM D412, ASTM D882 etc

The measurement software meets all testing requirements of tensile, compression, bending, shearing, tearing, and peeling of various materials.The test report can be printed directly or exported PDF, Word, Excel and other formats; supports 9 languages, switch back and forth, basically meet the testing machine in the world; convenient switching unit, to meet the different international standards. Can be curve processing, multi-sensor support, graphical image of the interface, flexible data processing, MS-ACCESS database support, the system features more powerful.

SPECIFICATGION

Model No.	UNT-5KN
Max Capacity	5KN
Load Resolution	1/500,000
Load Accuracy	±0.3%
Vertical test space	700mm
Return Speed	0.01～500mm/min
Driving System	Servo motor drive, synchronous wheel and precision ball screw drive
Safety Device	Emergency stop,Up-down limit(Proximity sensor type),Over load
Force Unit Conversion	Kgf , N , lbf , g , ton , Mpa
Machine Dimension	780×450×160mm(W*D*H)
Weight	About 120kg
Power	AC 220V 50/60HZ
Standard Delivery	1 set of fixture, computer software, USB computer connection cable

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ELECTROMECHANICAL UNIVERSAL TESTING MACHINE 10KN-50KN



Small components, reinforced plastics, metals, wire, composites, elastomers, wood products, textiles, biomaterials, paper products, adhesives, foam, consumer products

Standards:

ISO6892, ISO527, ISO604, ISO178, ISO1184, ISO37, ASTM E8, ASTM E9, ASTM D638, ASTM D695, ASTM D790, ASTM D395, ASTM D412, ASTM D882 etc

The measurement software meets all testing requirements of tensile, compression, bending, shearing, tearing, and peeling of various materials.The test report can be printed directly or exported PDF, Word, Excel and other formats; supports 9 languages, switch back and forth, basically meet the testing machine in the world; convenient switching unit, to meet the different international standards. Can be curve processing, multi-sensor support, graphical image of the interface, flexible data processing, MS-ACCESS database support, the system features more powerful.

SPECIFICATGION

Model No.	UNT-10KN	UNT-20KN	UNT-50KN
Max Capacity	10KN	20KN	50KN
Load Resolution	1/500,000		
Load Accuracy	±0.3%		
Vertical test space	1100mm		
Return Speed	0.01～500mm/min		
Driving System	Servo motor drive, synchronous wheel and precision ball screw drive		
Safety Device	Emergency stop,Up-down limit(Proximity sensor type),Over load		
Force Unit Conversion	Kgf , N , lbf , g , ton , Mpa		
Machine Dimension	900×680×2000mm(W*D*H)		
Weight	About 420kg		
Power	AC 220V 50/60HZ		
Standard Delivery	1 set of fixture, computer software, USB computer connection cable		

ELECTROMECHANICAL UNIVERSAL TESTING MACHINE 300KN



INSTRODUCTION

Small components, reinforced plastics, metals, wire, composites, elastomers, wood products, textiles, biomaterials, paper products, adhesives, foam, consumer products

Standards:

ISO6892, ISO527, ISO604, ISO178, ISO1184, ISO37, ASTM E8, ASTM E9, ASTM D638, ASTM D695, ASTM D790, ASTM D395, ASTM D412, ASTM D882 etc

The measurement software meets all testing requirements of tensile, compression, bending, shearing, tearing, and peeling of various materials.The test report can be printed directly or exported PDF, Word, Excel and other formats; supports 9 languages, switch back and forth, basically meet the testing machine in the world; convenient switching unit, to meet the different international standards. Can be curve processing, multi-sensor support, graphical image of the interface, flexible data processing, MS-ACCESS database support, the system features more powerful.

SPECIFICATGION

Model No.	**UNT-100KN**	**UNT-200KN**	**UNT-300KN**
Max Capacity	100KN	200KN	300KN
Load Resolution	1/500,000		
Load Accuracy	±0.1%		
Vertical test space	800mm(Can customerized)		
Return Speed	0.01～500mm/min		
Driving System	Servo motor drive, synchronous wheel and precision ball screw drive		
Safety Device	Emergency stop,Up-down limit(Proximity sensor type),Over load		
Force Unit Conversion	Kgf , N , lbf , g , ton , Mpa		
Machine Dimension	1280×800×2150mm(W*D*H)		
Weight	About 1450kg		
Power	AC 220V 50/60HZ		
Standard Delivery	1 set of fixture, computer software, USB computer connection cable		

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COMPUTER CONROL SERVO HYDRAULIC UNIVERSAL TESTING MACHINE



WAW-1000D

STANDARD DELIVERY

- Pulling, pressing jaws: 1 pair
- Round: Φ10-Φ20mm, Φ20-Φ32mm (Optional: Φ4-Φ10mm); Straight: 0-15mm (Optional: 15-30mm)
- Compression fixture (Φ160mm): 1 pair
- Special bending fixture: 1 pair
- Special cutting fixture (optional) : 1 pair
- Hydraulic oil control cabinet:1
- Gear pump: 1 set
- "WNM" Engine:1
- Hydraulic valve for hydraulic grips:2
- Hydraulic clamps device:1
- One-way valve:1
- Fine oil filter:1
- Hydraulic oil valve:1
- Closed type hydraulic oil return valve:1
- Harp oil supply control cabinet:1
- Measurement and control system:1
- Sensitive sensor:1
- YSJ50 / 10 high precision electronic extensometer:1
- Lenovo computer:1
- Printer:1

TECHNICAL SPECIFICATION

Model No.	WAW-200/300D	WAW-500/600D	WAW-1000D	LAW-1000
Host structure	6 column type (4 column 2 screw)			
Max test force(kN)	200(300)	500(600)	1000	1000
accuracy level	1 class			
Test force accurate measurement range	2%～100%FS			
Displacement resolution	0.01mm			
Displacement measurement relative error	≤±0.5%			
Deformation (extensometer) measurement range	1%～100%FS			
Deformation indication relative error	≤±0.5%			
Piston moving speed range mm/min	0～240	0～120	0～80	0～50
Column spacing(mm)	490	500	560	580
Stretch jaw maximum spacing(mm)	780	900	950	1350
Compressed maximum spacing(mm)	550	650	700	1000
Round sample clamping range(mm)	φ10～φ32	φ13～φ40	φ13～φ45	/
Flat specimen clamping thickness(mm)	2～15	2～15	4～20	/
1*7 steel wire holding range（mm）	/	/	/	Φ9.5～φ21.6
Upper and lower platen size(mm)	φ160			
Lower jaw movement speed	240mm/min			
Piston stroke(mm)	200			250
Mainframe dimensions(mm)	745×685×1905	760×690×2055	830×720×2155	860×740×2575
Control cabinet dimensions（mm）	650×650×1600			
Total power (kW) (three-phase five-wire system)	3/AC380V/50Hz			

COMPUTER CONTROL ELECTRO-HYDRAULIC SERVO UNIVERSAL TESTING MACHINE UTH-300KN

TECHNICAL SPECIFICATION

- Maximum test load 300kN
- Accuracy grade 1 Class
- Measuring range 1%-100%
- Load resolution 30000 yard
- Indicating value of load measuring better than ±1% of indicating value
- displacement resolution : 5μm
- Displacement accuracy : better than ±1% of indicating value
- Deformation resolution 1μm
- Deformation accuracy : better than ±1% of indicating value
- Effective space between columns 435mm
- Stress speed range : 1—60 (N/mm2) S-1
- Strain speed range : 0.00025/S—0.0025/S
- Maximum distance between grips 690mm
- Maximum distance between platens 570mm
- Platen size φ128×30
- Connecting plate size φ128×60
- Distance between bending rollers 30-480mm
- Bending rod size M16×680
- Clamping diameter of round specimen 9-32mm
- Clamping thickness of flat specimen 0~15mm
- Piston travel 250mm
- Power 1.7kW
- Power supply AC 380V±10%
- Dimension of load frame 120mm×560mm×1940mm
- Dimension of oil source 550mm×550mm×1410mm
- Weight 1222kg



STANDARD DELIVERY

- Load frame 1set
- Measuring & control system 1 set
- Oil source 1 set
- Hight precision column type load cell 1 piece (load measuring directly, not be affected from friction of oil cylinder and external influence)
- Build-in Displacement transducer 1 piece
- Electro-hydraulic servo valve 1 set (Italy ATOS E-RI-TE-01H 40/DH04SA)
- Control system 1 set
- Extensometer (gauge length 25mm、50mm、100mm to choose from)
- Lenovo computer 1 set (Model M4600 , 17″ CRT) , Confriguration :
- PDC E21800/1G DDRII/SATA2 160G(7200 R)/SATA DVD/Sound card/Integrated KiloMega network card /Integrated high performance video card /Keyboard/USB Photoelectrical mouse/XP HOME /front built 2 USB2.0/Sky application 08A (for XP) /180W power supply/guarantee for 3 years
- HP Deskjed A4 Jet printer 1 set
- Tensile Fixture 1 set (Round grip Φ9-Φ20 , Φ20-Φ32one for each , Flat grip 0-15 1 pair)
- Compression fixture 1 set (Platen Φ128)
- Bending fixture 1 set (standard Φ30cooling bending & compression head)
- Connected cable 1 set
- Data process software package 1 set (running in Windows 98, windows 2000 or windows XP)
- Computer desk 1PC

COMPUTER CONTROL ELECTRO-HYDRAULIC SERVO UNIVERSAL TESTING MACHINE UTH-3000KN

TECHNICAL SPECIFICATION

- Maximum test load 3000kN
- Accuracy grade 1 Class
- Measuring range 1%-100%
- Load resolution 30000 yard
- Indicating value of load measuring better than ±1% of indicating value
- Displacement resolution : 5μm
- Displacement accuracy : better than ±1% of indicating value
- Deformation resolution 1μm
- Deformation accuracy : better than ±1% of indicating value
- Effective space between columns 860mm
- Stress speed range : 1—60 (N/mm2) S-1
- Strain speed range : 0.00025/S—0.0025/S
- Maximum distance between grips 1450mm
- Maximum distance between platens 1250mm
- Platen size φ200×60
- Connecting plate size φ148×60
- Distance between bending rollers 50-900mm
- Clamping diameter of round specimen 20-80mm
- Clamping thickness of flat specimen 10-40mm
- Piston travel 250mm
- Power 8.5kW
- Power supply AC 380V±10%
- Dimension of load frame 1340mm×1000mm×3860mm
- Dimension of oil source 550mm×750mm×1410mm
- Weight 12000kg



STANDARD DELIVERY

- Load frame 1set
- Measuring & control system 1 set
- Oil source 1 set
- Hight precision column type load cell 1 piece (load measuring directly, not be
- Affected from friction of oil cylinder and external influence)
- Build-in Displacement transducer 1 piece
- Electro-hydraulic servo valve 1 set (Italy ATOS E-RI-TE-01H 40/DH04SA)
- Control system 1 set
- Extensometer (gauge length 25mm、50mm、100mm to choose from)
- Lenovo computer 1 set (Model M4600 , 17″ CRT) , Confriguration :
- PDC E21800/1G DDRII/SATA2 160G(7200 R)/SATA DVD/Sound card/Integrated KiloMega network card /Integrated high performance video card /Keyboard/USB Photoelectrical mouse/XP HOME /front built 2 USB2.0/Sky application 08A (for XP) /180W power supply/guarantee for 3 years
- HP Deskjed A4 Jet printer 1 set
- Tensile Fixture 1 set (Round grip Φ20-Φ40 , Φ40-Φ60 , Φ60-Φ80one for each , Flat grip 10-40 1 pair)
- Compression fixture 1 set (Platen Φ300)
- Bending fixture 1 set (standard Φ80cooling bending & compression head)
- Connected cable 1 set
- Data process software package 1 set (running in Windows 98, windows 2000 or windows XP, standard GB/T228-7 and GB/T228-2002 can be transferable)
- Computer desk 1PC

ALL GRIPS FOR UNIVERSAL TESTING MACHINES

WEDGE GRIP

Model No : GR-F010

Description

- Wedge Grip is used to perform tensile test. It is suitable for metal sheet, metal wire, plastic and high
- tension material. It conforms to ASTM D412.
- Industry: metal, plasti



PLANE GRIP

Model No : GR-E060

Description

- Plane Grips are used to perform tensile test. It is suitable for thin wire, film and flat sheet such as
- paper.
- Industry: textile, plastic and paper.



TEXTILE GRIP

Model No : GR-E020

Description

- Textile Grip is used to perform tensile test. It is suitable for rope, textile webbing and plastic sheet
- specimen test.
- Industry: textile, plastic



3 POINT BEND/FLEXURE

Model No : GR-C010

Description

- 3 point bend/flexure is used to perform bending test. It is suitable for metal, wooden material, glass,
- and hard plastic specimen test. It conforms to ASTM D179.
- Industry: metal, wood, glass, plastic



We produce more grips,also can customerize the grips according to the drawing.

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DIGITAL SPRING TESTER

DST digital spring tester, is a specialized instruments widely used in such industries, push& pull test, the spring extension /compression test,and so on fields for testing push /pull ,extension/compression in a allowed capacity.

FEATURES:

- **Peak hold**
  Hold the peak value in test;
- **Peak hold and clean automatically**
  Hold the peak value, keep the value in 1-10 seconds (time is selected);
- **Auto power off**
  The gauge will power off in 1-60 minutes (time is selected) ,there is not operation;
- **Comparative function**
  Setting the upper limit and lower limit, the pilot lamp and buzzer to choose the eligible value;
- **Calculate the average value**
  Memory 10 data and calculate the average of memory data;
- **Three units**
  lbf, kgf, and Newton units are push-button selectable;
- **RS-232 series port digital output**
  The RS-232 series port output to printer. Inside printer; The printing data have max value, min value, average value, eligible value and incompetent value.



DST-10



DST-50



DST-1500

TECHNICAL SPECIFICATION

Model No.	DST-10	DST-20	DST-30	DST-50	DST-100	DST-200	DST-300	DST-500	DST-1000	DST-2000	DST-3000	DST-5000
CAPACITY：	10N	20N	30N	50N	100N	200N	300N	500N	1000N	2000N	3000N	5000N
LOAD GRADUATION eP	0.001N	0.002N	0.01N	0.01N	0.02N	0.05N	0.1N	0.1N	0.2N	0.5N	1N	1N
LENGTH &WIDTH&HEIGHT	300x220x500mm			300x220x580mm					450x290x800mm			
THE MAX TRAVEL	70mm			100mm					150mm			
THE MAX FREE TESTABLE LENGTH	70mm			100mm					200mm			
PLATEN DIA	34mm			49mm					108mm			
DISTORTION VALUE eH	0.01mm											
POWER	20W											
ELECTRIC POWER	AC 220v-55Hz and a 1.5V silver oxide battery(The battery maintenance 1 year. If the battery is exhausted, the display will flash to indicate to change the battery.)											
LOAD INTERFACE	Numeral display											

TABER ABRASION TESTER PD-505



APPLICATION

PD-505 TABER Abrasion Tester is designed according to DIN-53754,53799, 53109,TAPPI-T476, ASTM-D3884,ISO5470-1 and relative standards. The main function is using specified grinding wheel with specified Load to rub the surface of specimen, and then evaluate the abrasion condition. The abrasion property could be indicated by measure the loss of weight, volume and thickness. This tester is suitable used for abrasion test to leather, fabric, paint, paper, floor brick, plywood, glass, natural rubber and so on.

TECHNICAL SPECIFICATION

Load	250g,500g, 750g,1000g
Specimen	Size ∅110 mm,center hole ∅7.5 mm, thickness: 1～6 mm
Space Between Grinding Wheels	63.5mm
Grinding Wheel and Plate`s Space:	37~38mm
Rotating Speed	1-100RPM adjustable(Default: 60RPM), stepping motor
Counter	LED 0～99999999
Grinding wheel type(optional)	H18,H22, CS10,CS17,CS32,CS33
Dimension	45×35×42cm
Net Weight	25KG
Test standard	DIN53754,53799,53109,52347,TAPPI T476, ASTM D3884,ISO 54701, ASTM D 1175
Accessories	Vacuum cleaner(1 set), specimen cutter(1 pc), Wrench(1 pc), sand paper(10 pcs)

DIN ABRASION TESTER PD-502

APPLICATION

This tester uses a specific load to rub the material to evaluate the abrasive performance, used for outsole of shoes, track belt, tire, rubber, plastic, etc.
Specimen Grips: ø16mm
Load: 2.5N,5N,10N
Speed 40rpm.
Grips horizontal Moving Distance: 4.2mm/Per Roller Turn
Roller Diameter150mm,
Abrasion Travel:40 m
Dimension: 80 x 34 x 35 (H) cm;
Power: Single Phase,AC 220V,3A



METAL CHARPY & IZOD PENDULUM IMPACT TESTER IMP-300 C/I



Model No.
IMP-300 C/I

APPLICATION

IMP-300I/C is with 300J and 150J pendulums for Charpy, 170J and 85J pendulums for IZOD, this machine can examine the impact energies at high precise.

Standards: In accordance with ASTM E23

FEATURES

- High stiffness load frame & base to guarantee the stability.
- Refined swing rod with high stiffness prevented the shaking of pendulum after test.
- High precise photoelectric encoder to measure the angle. The whole system adopts lot of mature Optoelectronic Technology and Optoelectronic seclusion technology to improve the measuring precise and stability

TECHNICAL SPECIFICATION

Specification	CHARPY		IZOD	
I. Impact energy				
Max. impact energy	300J	150J	170J	85J
II. Dial range & division				
Measuring range	0-300J	0-150J	0-170J	0-85J
Min. resolution of impact energy	2J	1J	2J	1J
III. Pendulum moment				
Impact energy	300J	150J	170J	85J
Pendulum moment	160.7695N·m	80.3848N·m	91.1027N·m	45.5514N·m
IV. Rising angle				
Rising angle	150°	150°	150°	150°
V. Power & Size				
Power	AC 380V, 50Hz, 3 phases 4 lines, 180W			
Size of specimen	10 x 10 x 55 mm (U,V 2mm Notches)			

COMPUTERIZED IMPACT TESTING MACHINE IMP-300P C/I

Model No.
IMP-300P C/I



APPLICATION

This product is a ideal equipment for quality control center, engineering areas,college and research institute. as well as other areas concerning material impact testing.
IMP-300P I/C is a Computer Controlled IZOD/CHARPY Integrated Impact Testing Machine to determine the energy absorbed infracturing a test piece at high velocity. It can not only examine the energy, return zero, loss of energy, swing circle, but also can display, store, and print the testing result through computer. You can control it by computer software or control box. With 300J and 150J pendulums for Charpy, 170J and 85J pendulums for IZOD, this machine can examine the impact energies at high precise.
Standards: In accordance with ASTM E23

FEATURES

- High stiffness load frame & base to guarantee the stability.
- Refined swing rod with high stiffness prevented the shaking of pendulum after test.
- High precise photoelectric encoder to measure the angle. The whole system adopts lot of mature Optoelectronic Technology and Optoelectronic seclusion technology to improve the measuring precise and stability.
- The machine can not only be operated by software, but also by control box. Dual control way improved the flexibility of machine operation to improve the working efficiceny.
- The software can not only examine the energy, return zero, loss of energy, swing circle, but also can display, store, print the testing result through computer

TECHNICAL SPECIFICATION

Specification	CHARPY		IZOD	
I. Impact energy				
Max. impact energy	300J	150J	170J	85J
II. Dial range & division				
Measuring range	0-300J	0-150J	0-170J	0-85J
Min. resolution of impact energy	2J	1J	2J	1J
III. Pendulum moment				
Impact energy	300J	150J	170J	85J
Pendulum moment	160.7695N·m	80.3848N·m	91.1027N·m	45.5514N·m
IV. Rising angle				
Rising angle	150°	150°	150°	150°
V. Power & Size				
Power	AC 380V, 50Hz, 3 phases 4 lines, 180W			
Size of specimen	10 x 10 x 55 mm (U,V 2mm Notches)			

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SEMI-AUTOMATIC METAL CHARPY PENDULUM IMPACT TESTER

APPLICATION

CH/IMP-300/500 Charpy (simple-beam) Impact Tester mainly used to determine the anti-impact capability of ferrous metal materials with high toughness, especially for steel and iron material and their alloy, under dynamic load impacting.
This tester can be operated semi-automatically. The pendulum of the machine can be raised or released automatically by button pressed. They are essential testing instruments for quality testing section, university and college, research institution and industrial and mining enterprise. The machine can do the test according to ASTM E23 and ISO 148 or other equal standards.
*Two Pendulums (big and small) and two scale reading for each testing machine which enlarge the test range of energy.
*Pendulum rising, impact, free releasing is realized as automatically by control remote.
*Safety pin guaranties the impact action.
*Protection shell avoids the hit and break sample splashing.
*Sample and support are easy centering.
*Electromagnetic clutch hold the rasing pendulum. Power sudden off still in safety.



Model No. CH/IMP-300

Model No. CH/IMP-500

TECHNICAL SPECIFICATION

Model No.	**CH/IMP-300**	**CH/IMP-500**
Impact energy	150J; 300J	250J; 500J
Pendulum moment	80.3848/160.7695	133.9746/267.9492
Impact velocity	5.2m/s	5.4m/s
Raising angle	150°	150°
Striker tip angle	30°	30°
Anvil taper angle	11°	11°
Pendulum Pole length	750 mm	800 mm
Standard Sample span	40mm	40mm
Round angle radius of Grips	R1-1.5mm	R1-1.5mm
Round angle radius of striking edge	R2-2.5mm	R2-2.5mm
Optional striking edge by order	R8mm	R8mm
Power supply	3 Phase, 380V, 50Hz/60Hz	
Dimension	2100× 650× 1900 mm	
Weight(Kg)	500kg	750kg

SEMI-AUTOMATIC METAL CHARPY PENDULUM IMPACT TESTER

FEATURES

- Two Pendulums (big and small) and two scale reading for each testing machine which enlarge the test range of energy.
- Pendulum rising, impact, free releasing is realized as automatically by control remote and LCD controller.
- Safety pin guaranties the impact action.
- Fully PLC control and I/O data processing.
- Test data store and printing function.
- Dial gauge and digital out put synchronous test result.
- Protection shell avoids the hit and break sample splashing.
- Sample and support are easy centering.
- Electromagnetic clutch hold the rasing pendulum. Power sudden off still in safety.
- Easy installation and operation.



STANDARD DELIVERY

- Operating Instrument Fixator: 1
- Pendulum(300J/150J): 2
- Span Specimen Plate (L=40mm): 1
- Specimen Centering Plate (L=40mm)(U, V): 1
- Stripping Attachment: 1
- Internal Hexagonal Wrench (S=12mm): 1
- Anchor Bolts (M16*300mm): 4
- Impact Testing Safety Guard Net: 1
- Measurement And Control System: 1
- LCD Operation Instrument: 1
- High-precision Optical Encoder: 1

TECHNICAL SPECIFICATION

Model No.	CH/IMP-300TL	CH/IMP-500TL	CH/IMP-750TL
Impact energy	150J; 300J	250J;500J	500J; 750J
Impact velocity	5.2m/s	5.4m/s	5.9m/s
Raising angle	150°	150°	150°
Striker tip angle	30°	30°	30°
Anvil taper angle	11°	11°	11°
Pendulum Pole length	750 mm	800 mm	750
Standard Sample span	40mm	40mm	40mm
Round angle radius of grips	R1-1.5mm	R1-1.5mm	R1-1.5mm
Round angle radius of striking edge	R2-2.5mm	R2-2.5mm	R2-2.5mm
Optional striking edge by order	R8mm	R8mm	R8mm
Power supply	3 Phase, ~380V/220V, 50Hz/60Hz		
Dimension	2100×650×1900 mm		2450 × 1200 × 2455mm
Weight(Kg)	600kg	900kg	3000kg

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COMPUTER CONTROL SEMI-AUTOMATIC METAL CHARPY PENDULUM IMPACT TESTER

APPLICATION

Computer Control Semi-automatic Charpy Impact Testing Machine are mainly used to determine the anti-impact capability of metal materials under dynamic load.

Carry out the functions of zero clearing and automatic return, capturing the value of lost impact energy and pendulum cycle by means of setting up with computer program, and the results can be monitored, stored and printed out. Control box or computer program control is alternative operating method. Computer Control Semi-automatic Charpy Impact Testing Machine are adopted by many institutes and high-tech enterprises.

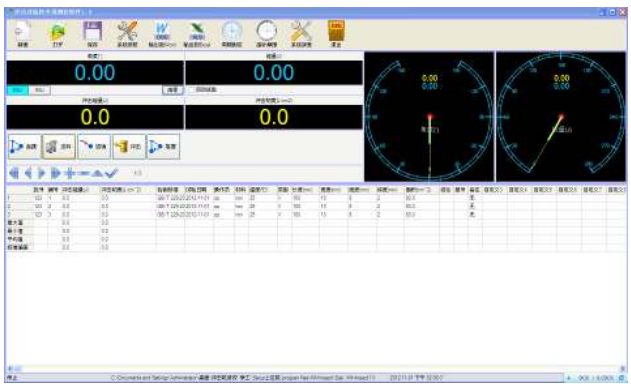


Standards ASTM E23, ISO148-2006

FEATURES

■ Fully automatic, sample feeding, auto position the sample; high efficiency;
■ Pendulum rising, impact, sample feeding, position, free releasing is realized automatically by easy PC mouse click;
■ Safety pin guaranties the impact action, standard protection shell to avoid any accident.
■ Pendulum will automatically rising and ready for next impact action after specimen breakout.
■ With two pendulums (big and small), PC software to display the energy loss, impact tenacity, rising angle, test average value etc. test data and result, also the curve display available; with calculation and report printing function. The dial scale can show test results too.

SOFTWARE



Model No.	CH/ IMP-300C	CH/ IMP-500C	CH/ IMP-800C
Impact energy (J)	150 300	250 500	500 800
Impact velocity (m/s)	5.2	5.4	5.9
Raised angle	150°		
Standard span (mm)	40		
Round angle of jaws (mm)	R1-1.5		
Round angle of striking edge (mm)	R2-2.5		
Size of specimen (mm)	10 x 10 x 55		
Power supply	3phs, 380V, 50Hz or 220V, 60Hz		
Dimensions (mm)	2124 x 600 x 1340	2144 x 736 x 1390	2450 x 1200 x 2455
Net Weight (kg)	450	650	2300
Display			

MELT FLOW INDEXER MFI-400 MFI-410 MFI-420 MFI-430

APPLICATION

Melt flow indexer is used to determine the melt mass-flow （MFR）、the melt volume-flow rate （MFV）and the melt density of thermo resin，it is not only fit for the engineering plastics of polycarbonate、nylon and fluorine plastics，etc，whose melt temperature are higher，but also fit for the plastics tests of polyethylene、polystyrene、polypropylene、ABS resin and polyformaldehyde resinetc，whose melt temperature are lower，it is widely applied to the fields of plastics materials、productpetrochemical，etc，also the colleges、scientific research unit and commodity inspection department.

Melt flow indexer adopts PID temperature control, digital display, it can cut material manual or auto., has two measuring method, MFR and MVR, with the fast load function and print out of the test report.Our Melt flow indexer meets the international standards: ISO 1133，ASTM D 1238，ASTM D 3364，DIN 53735，UNI-5640.

FEATURES

- Measuring range: 0. 01-600.00 g/10min(MFR)
  0. 01-600.00 cm/10min(MVR)
  0.001-9.999 g/cm (melt density)
- Temperature range: 50-400℃
- Temperature precision: ±0.5℃ resolution: 0.1℃
- Material canister inside diameter 9.55±0.025mm length:160mm
- Piston diameter 9.457±0.01mm mass:106g
- Mould inside diameter 2.095mm length: 8±0.025mm
- Load: full load
- Base weight: 0.325Kg.
- Weights: 0.875Kg,1.290Kg,1.835Kg,3.475Kg,4.675Kg,5.000Kg,5.000Kg one each (may freewill combination)
- Accuracy: 0.5%
- Cleaning accessories: clear material pole
- Calibration accessories: water level bubble
  Measuring method: MFR MVR/ DENSITY
- Supply Power: 220V±10% 50Hz Heat up power: about 550W
- Outline size: (length*width*height) 600*400*500 (unit: mm)
- Net weight: 85Kg gross weight: 135Kg

TECHNICAL SPECIFICATION

Model No.	Temperature control	Cutting material	MFR/MVR	Measure	Load Unload	Output
MFI-400	Intelligence PID	manual	MFR/MVR	Auto.	manual	Digital display
MFI-410	Intelligence PID	manual /auto.	MFR/MVR melt density	auto.	manual	Digital display Print report

MFI-420	Intelligence PID	manual /auto.	MFR/MVR melt density	auto.	Fast speed	Digital display
MFI-430	Intelligence PID	manual /auto.	MFR/MVR melt density	auto.	Fast speed	Digital display Print report



MFI-400



MFI-410



MFI-420



MFI-430

Mainframe	1pc
Base weight	1pc
Weight	1pc(six sorts seven pieces)
Piston	1pc
Mould	1pc
Oriented sheath	1pc
Water level bubble	1pc
Hopper	1pc
Clear material pole	1pc
Mould bore	1pc
Material check	1pc
English manual	1pc

MELT FLOW INDEXER MFI-530

FEATURES

- High accuracy in sampling, high control speed
- PLC controlled
- Touch LCD display
- Cut the test sample automatically
- Automatic print the testing result
- Curve display in LCD indicator
- Intelligent, modular system which offers flexibility of testing and increased automation
- The main base unit can be configured for either manual or fully automatic testing



Model No.	**MFI-530**
Temperature Range	Room temperature~400°C
Temperature Accuracy	±0.5°C
Resolution ratio	0.1°C°C
Total eight level 3.187-211.82N	Calibrated loads are to total value stamped on weight with correct piston (0.325kg,1.2kg, 2.16kg, 3.8kg. 5.0kg, 10.00kg, 21.6kg)
Diameter of mould	2.095±0.005mm
Length of mould	8.000±0.025mm
Length of the drum	160mm
working environment	Temperature:10~40°C; Humidity: 30%-80%
Power	220V/50HZ
Net weight	30kg

HDT AND VICAT TESTER HVT-303P

APPLICATION

HVT-303P HDT AND VICAT TESTER is widely used in the production of plastic materials and products and scientific research. It adopts PC controlled technology, measures and controls temperature and deformation automatically, gets test results automatically. In addition, with compact frame, beautiful style, stable quality, it is a high performance testing machine and has functions of discharging lampblack pollution and cooling, so that it is welcomed by customers. HVT-303 HDT AND VICAT TESTER adopts computer control technology, WINDOWS Englishinterface,measure the control temperature and deflectiondraw test curve real time,calculate the test result automatically and print the test report. This machine is standard type. Equipment conforms to the standards: ISO75, ISO306, ASTM D648,ASTMD 1525, DIN 53460, DIN 53461

TECHNICAL SPECIFICATION

- Heat Deflection Temperature: room temperature to 300
- Vicat Softening Temperature: room temperature to 300
- Test Station: 4 stations
- Heating Speed: 120 /h12±1 /6min50 C /h5±0.5 /6min
- Whole set of English version control software and adapter for Windows system.
- Deflection measuring Range: 1mm
- Maximum Temperature Accuracy: ±0.5
- Temperature error: ±0.5
- Maximum deflection error: 0.01mm
- Heating power: 4KW
- Distortion Range: -0.1mm-1.1mm
- Heating Medium: Methyl silicon oil
- Power supply : 110V/220V 60Hz/50Hz
- Dimension: 1200mmH 550mmW 530mmD
- Sample frame automatic raise and fall.



DIGITAL CHARPY IZOD IMPACT TESTER CH/IZ-D5 PLUS

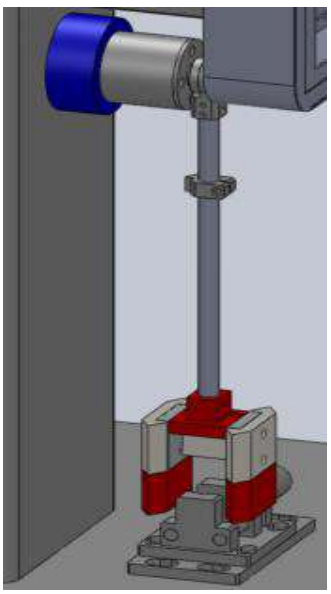
CH/IZ-D5 Digital Charpy & IZOD Impact Tester

This impact tester is used to test impact toughness of hard plastic, GFPA, glass fiber reinforced plastics,ceramics, cast stone,electrical insulating materialand other non-metal material.It's a ideal testing equipments in chemical industry, R &D institution, quality controlling dept.

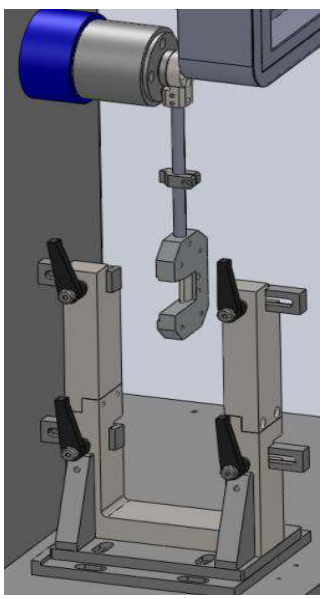


FEATURES

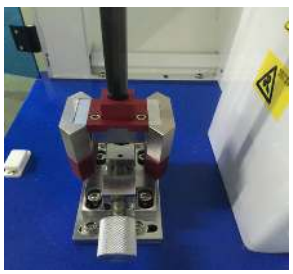
- This impact tester adopts mico-computer technology to manufacture, it's a intelligentize and digital impact tester. It can correct automatically energy loss caused by friction and wind drag. (After sample breakage, It's one-time finished for checking pendulum bob surplus energy and correcting the energy loss.)
- This impact tester is used to electronic display to show the test result, test result output by printer. Reading intuitive, improving the accuracy.
- Adopts rotary encoder grating angular technology, high accuracy, good stability, big measurment ranges. Digital showing impact energy, impact strength, Pre-elevation, lead angle, average value, engery loss...
- It is a combined impact tester, cantilever beam impact test and charpy impact test, designed by ISO 179, and ASTM D256.



Cantilever beam (IZOD)



Free beam (Charpy)









Method	Charpy Impact Test
Impact Speed	2.9 m/s
Impact Energy	1J, 2J, 4J, 5J
Pendulum Torque	Pd1=0.53590Nm Pd2=1.07180Nm Pd4=2.14359Nm Pd5=2.67949Nm
Centre distance	230mm
Pendulum Pre-elevation	150°
Blade fillet radius	R=2±0.5mm
Jaw fillet radius	R=1±0.1mm
Impact blade included angle	30±1°
pendulum impact Engergy loss	1J: 2%, 2J: 1%, 4J, 5J: 0.5%
Jaw support spacing	40mm, 60mm, 70mm, 95mm
Power	AC220V±10% 50HZ

Method	IZOD Impact Test
Temperature	(15-35) ℃
Impact speed	3.5 m/s
Impact Energy	1J, 2.75J, 5.5J (5.5D)
Pendulum Torque	Pd1=0.535N·M Pd2.75=1.4737N·M Pd5.5=2.9474N·M Pd11=5.8949N·M Pd22=11.7898N·M
Pendulum Pre-elevation	150°±1°
Centre distance	335mm
Pendulum Pre-elevation	150°
Centre distance	335mm
Blade fillet radius	R=0.8±0.2mm
Distance from impact blade to jaw	22±0.2mm
Size	560x300x840mm
Weight	80KGS
Power	AC220V±10% 50HZ

CHARPY IZOD IMPACT TESTER CH/IZ-25 CH/IZ-50

It is used for test engineering plastics, glass-steel, ceramics, casting stone, plastic wiring, insulating material, plastic pipe material and other non –metallic materials for anti- impact intensity.
The products satisfy the standard demands of ISO 179, ISO 180, ASTM D256,DIN53453, ISO9854,DIN12608 and others.



STANDARD DELIVERY

- Main frame 1pc
- Cantalever girder grip 1pc
- Fastness support seat (on charpy impact grip) 1pc
- Movement support seat (on charpy impact grip) 1pc
- Former for regulate center (40,60,70,95) 1 set
- Adjustment gasket (2 ,2.5,3.5, 5,7) 2pcs each
- R1 R2 supporting knife-edge 2pcs each
- Cantalever girder benchmark 1pc
- Charpy impact hammer (1J 4J 7.5J 15J 25J) 1pc each
- Cantalever girder hammer (1J 5.5J 11J 22J) 1pc each
- Charpy impact weight (2J 5J) 1pc each
- Cantalever girder weight (2.75J) 1pc each
- Power line 1pc
- Internal six angle spanner (4、5、6、8) 1pc each
- Screwdriver 1pc

TECHNICAL SPECIFICATION

Model No	CH/IZ-25		CH/IZ-50	
Distance between clamps of Charpy	40mm 60mm 70mm 95mm		40mm 60mm 70mm 95mm	
(Charpy) Impact energy	1J 2J 4J 5J	7.5J 15J 25J	1J 2J 4J 5J	7.5J 15J 25J 50J
(Charpy)Impact speed	2.9m/s	3.8m/s		
(Izod) Impact energy	1J 2.75J 5.5J 11J 22J		1J 2.75J 5.5J 11J 22J	
(Izod)Impact speed	3.5m/s		3.5m/s	

NON-METALLIC PENDULUM IMPACT TESTER

APPLICATION

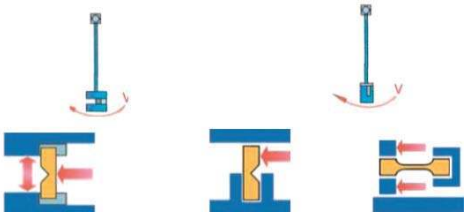
Non-metallic materials pendulum impact testing machine is to determine the impact toughness of plastic, glass steel, plastic pipe, strong nylon, china, clay rock and anti-electric materials. It can do Charpy, Izod, tensile impact, Charpy & Izod, Charpy & Izod & tensile impact test by different anvils and pendulums as the standards of ISO179/180, ASTM D256, and ISO9854 etc. Pendulum can carry out the full range of impact tests. A complete range of fully interchangeable hammers and vises allow the operator to perform Charpy, Izod and Tensile impact test at different impact velocities and energies.

TECHNICAL SPECIFICATION

Span of the Charpy Anvil: 40mm, 60mm, 70mm & 95mm
Pre-elevation angle: 160°

Model No.	Type	Display	Energy(J)	Impact speed(m/s)
IZ-I 2.75	Izod	Dial	1, 2.75	3.5
IZ-I 5.5			1, 2.75, 5.5	3.5
IZ-I 22			2.5, 11, 22	3.5
IZ-I 2.75D	Izod	Digital	1, 2.75	3.5
IZ-I 5.5D			1, 2.75, 5.5	3.5
IZ-I 22D			5.5, 11, 22	3.5
CH-5	Charpy	Dial	1, 2, 4, 5	2.9
CH-25			7.5, 15, 25	3.8
CH-25Z			1, 2, 4, 5/7.5, 15, 25	2.9/3.8
CH-50			7.5, 15, 25, 50	3.8
CH-5D	Charpy	Digital	1, 2, 4, 5	2.9
CH-25D			7.5, 15, 25	3.8
CH-25ZD			1, 2, 4, 5/7.5, 15, 25	2.9/3.8
CH-50D			7.5, 15, 25, 50	3.8
CH/IZ-5	Izod	Dial	1, 2.75	3.5
	Charpy		1, 2, 4, 5	2.9
CH/IZ-25	Izod	Dial	5.5,11, 22	3.5
	Charpy		7.5, 15, 25	3.8
CH/IZ-25D	Izod	Digital	1, 2.75, 5.5, 11, 22	3.5
	Charpy		1, 2, 4, 5/7.5, 15, 25	3.8
CH/IZ-50D	Izod	Digital	1, 2.75, 5.5, 11, 22	3.5
	Charpy		1, 2, 4, 5/7.5, 15, 25, 50	2.9/3.8
	Tensile		15J	

Hammers:







IMPACT TESTING MACHINE LOW TEMPERATURE METER



TECHNICAL SPECIFICATION

Model No.	PTM-30	PTM-60	PTM-80	PTM-100
Temperature range (˚C)	Room to -30	Room to -60	Room to -80	Room to -100
Accuracy (˚C)	≤±0.5			
Effective working space (mm)	120x120x80			
Specimen dimension (mm)	10x10x50			
Specimen quantity (mm)	More than 60 pcs.			
Cooling media	Alcohol or other			
Power supply (kW)	1.0	1.5	1.5	2.0
Dimension (mm)	800x510x480	800x510x750	800x510x480	1200x700x800

Notes: Room temperature down to -150˚C/-196˚C cooled by liquid nitrogen can be specially ordered according to user's requirement

MANUAL / HYDRAULIC BROACHING MACHINE

APPLICATION

Manual/hydraulic broaching machine is specially designed for specimen preparation for impact specimen. Both manual and hydraulic type are available to cutting the notch according to the 'V' ASTM E23, IS0148 standards, 'U' DIN 50115 and IS083 standards Charpy Notch Impact Test Method for Metal Material. Meanwhile, the machine also features in high precision, long life, low noise and concise appearance etc.



Model No : BRO-VU1M

Manual type



Model No : BRO-VU2E

Hydraulic type

TECHNICAL SPECIFICATION

- Notch type: V type: 2mm or U type: 2mm.
- Size of specimen: 10x10 (7.5 or 5) ×55mm.
- Travel of cutting knife: 340mm.
- Dim: 400x350x700mm.
- Weight: 100kg

TECHNICAL SPECIFICATION

- Notch type: V type: 2mm or U type: 2mm.
- Size of specimen: 10x10 (7.5 or 5) ×55mm.
- Travel of cutting knife: 340mm.
- Cutting speed: 2.Sm/min .
- Dim: 600x500x1200mm.
- Weight: 200kg.

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